

```

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Phe Ser Cys His Lys Glu
145          150          155          160
Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys
          165          170          175
Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly
          180          185          190
Thr Ile Lys Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile
          195          200          205
Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met
210          215          220
Ser Leu Leu Glu Asp Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu
225          230          235          240
Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu
          245          250          255
Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn
260          265          270
Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His
275          280          285
Gly Trp Cys Cys Gln Thr Trp Ser Leu His
290          295          298

```

```

<210> 911
<211> 213
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(213)
<223> X = any amino acid or stop code

```

```

<400> 911
Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro
1          5          10          15
Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Leu Arg
20          25          30
Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu
35          40          45
Arg Ser Leu Gln Ala Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
50          55          60
Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Arg Pro Ala
65          70          75          80
Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg
85          90          95
Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln
100          105          110
Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu
115          120          125
Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser
130          135          140
Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu
145          150          155          160
Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Arg Pro Ala Asn Phe
165          170          175
Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp
180          185          190
Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val
195          200          205
Leu Gly Leu Gln Val

```

210

213

<210> 912  
 <211> 583  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 912

```

Pro Ser Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg
1      5      10
Lys Asp Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys
      20      25      30
Ala Gln Ile Glu Glu Pro Asp Pro Glu Met Glu Thr Ser Leu Asp
      35      40      45
Ser Ser Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser
      50      55      60
Thr Glu Ser Cys Thr Met Lys Gly Glu Glu Lys Ser Pro Lys Thr Lys
      65      70      75      80
Lys Asp Lys Arg Pro Pro Ile Leu Glu Cys Leu Glu Lys Leu Glu Lys
      85      90      95
Ser Lys Lys Thr Phe Leu Asp Lys Asp Ala Gln Arg Leu Ser Pro Ile
      100      105      110
Pro Glu Glu Val Pro Lys Ser Thr Leu Glu Ser Glu Lys Pro Gly Ser
      115      120      125
Pro Glu Ala Ala Glu Thr Ser Pro Pro Ser Asn Ile Ile Asp His Cys
      130      135      140
Glu Lys Leu Ala Ser Glu Lys Glu Val Val Glu Cys Gln Ser Thr Ser
      145      150      155      160
Thr Val Gly Gly Gln Ser Val Lys Lys Val Asp Leu Glu Thr Leu Lys
      165      170      175
Glu Asp Ser Glu Phe Thr Lys Val Glu Met Asp Asn Leu Asp Asn Ala
      180      185      190
Gln Thr Ser Gly Ile Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln
      195      200      205
Lys Ser Lys Phe Lys Tyr Lys Leu Val Pro Glu Glu Thr Thr Ala
      210      215      220
Ser Glu Asn Thr Glu Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys
      225      230      235      240
Leu Thr Ile Arg Ile Ser Ser Arg Lys Lys Lys Pro Asp Ser Pro Pro
      245      250      255
Lys Val Leu Glu Pro Glu Asn Lys Gln Glu Lys Thr Glu Lys Glu Glu
      260      265      270
Glu Lys Thr Asn Val Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser
      275      280      285
Arg Pro Thr Ala Lys Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys
      290      295      300
Lys Arg Gly Glu Gly Glu Asp Glu Val Glu Glu Glu Ser Thr Ala Leu
      305      310      315      320
Gln Lys Thr Asp Lys Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr
      325      330      335
Asn Ser Lys Val Ser Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr
      340      345      350
Gly Ser Arg Thr Arg Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser
      355      360      365
Glu Gly Ser Gly Ser Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu Glu
      370      375      380
Glu Lys Glu Ser Glu Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys
      385      390      395      400
Lys Lys Cys Gly Leu Pro Asn His Pro Glu Leu Ile Leu Leu Cys Asp

```

```

          405          410          415
Ser Cys Asp Ser Gly Tyr His Thr Ala Leu Pro Phe Ala Pro Pro Leu
          420          425          430
Met Ile His Pro Gln Met Gly Gly Trp Phe Cys Pro Thr Phe Cys Pro
          435          440          445
Thr Leu Asn Leu Leu Leu Leu Glu Lys Leu Glu Asp Gln Phe Gln Asp
          450          455          460
Leu Asp Val Ala Leu Lys Lys Glu Arg Ala Leu Pro Glu Arg Arg Lys
          465          470          475          480
Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile Pro Pro
          485          490          495
Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys Asp Ser
          500          505          510
Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg Thr Arg
          515          520          525
Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile Asp Glu
          530          535          540
Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val Gly Arg
          545          550          555          560
Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp Ile Ser
          565          570          575
Thr Ile Leu Asp Glu Glu Arg
          580          583

```

```

<210> 913
<211> 178
<212>Amino acid
<213> Homo sapiens

```

```

          <400> 913
Lys Arg Arg Gly Ser Phe Lys Met Ala Glu Leu Asp Gln Leu Pro Asp
1          5          10          15
Glu Ser Ser Ser Ala Lys Ala Leu Val Ser Leu Lys Glu Gly Ser Leu
          20          25          30
Ser Asn Thr Trp Asn Glu Lys Tyr Ser Ser Leu Gln Lys Thr Pro Val
          35          40          45
Trp Lys Gly Arg Asn Thr Ser Ser Ala Val Glu Met Pro Phe Arg Asn
          50          55          60
Ser Lys Arg Ser Arg Leu Phe Ser Asp Glu Asp Asp Arg Gln Ile Asn
          65          70          75          80
Thr Arg Ser Pro Lys Arg Asn Gln Arg Val Ala Met Val Pro Gln Lys
          85          90          95
Phe Thr Ala Thr Met Ser Thr Pro Asp Lys Lys Ala Ser Gln Lys Ile
          100          105          110
Gly Phe Arg Leu Arg Asn Leu Leu Lys Leu Pro Lys Ala His Lys Trp
          115          120          125
Cys Ile Tyr Glu Trp Phe Tyr Ser Asn Ile Asp Lys Pro Leu Phe Glu
          130          135          140
Gly Asp Asn Asp Phe Cys Val Cys Leu Lys Glu Ser Phe Pro Asn Leu
          145          150          155          160
Lys Thr Arg Lys Leu Thr Arg Val Glu Trp Gly Lys Ile Arg Arg Leu
          165          170          175
Met Gly
          178

```

```

<210> 914
<211> 158
<212>Amino acid

```

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(158)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 914

```

Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile Pro Ile
1           5           10           15
Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys Ile Ser
          20           25           30
Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu His Leu
        35           40           45
Asp Leu Tyr Leu Ala Ile Val Gly Leu Leu Ala Ile Thr Ala Val Tyr
       50           55           60
Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala Leu Gln
      65           70           75           80
Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr Ser Phe
          85           90           95
Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe Leu Ala
        100          105          110
Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro Arg Glu
       115          120          125
Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu Pro Trp
      130          135          140
Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Xaa *
     145          150          155          157

```

&lt;210&gt; 915

&lt;211&gt; 108

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(108)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 915

```

Xaa Ser Ala Ser Ala Thr Ser Leu Thr Leu Ser His Cys Val Asp Val
1           5           10           15
Val Lys Gly Leu Leu Asp Phe Lys Lys Arg Arg Gly His Ser Ile Gly
        20           25           30
Gly Ala Pro Glu Gln Arg Tyr Gln Ile Ile Pro Val Met Cys Cys Ser
       35           40           45
Leu Leu Ala Thr Gly Gly Ala Asp Arg Leu Ile His Leu Trp Asn Val
       50           55           60
Val Gly Ser Arg Leu Glu Ala Asn Gln Thr Leu Glu Gly Ala Gly Gly
      65           70           75           80
Ser Ile Thr Ser Val Asp Phe Asp Pro Ser Gly Tyr Gln Val Leu Ala
          85           90           95
Ala Thr Tyr Asn Gln Val Ala Gln Phe Trp Lys *
     100          105          107

```



<210> 916  
 <211> 45  
 <212> Amino acid  
 <213> Homo sapiens

<400> 916  
 Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu  
 1 5 10 15  
 Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg  
 20 25 30  
 Arg Leu Gly Met Val Phe Phe Ser Leu Leu Ser Tyr  
 35 40 45

<210> 917  
 <211> 180  
 <212> Amino acid  
 <213> Homo sapiens

<400> 917  
 Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu  
 1 5 10 15  
 Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser  
 20 25 30  
 Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr  
 35 40 45  
 Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg  
 50 55 60  
 Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr  
 65 70 75 80  
 Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr  
 85 90 95  
 Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe  
 100 105 110  
 Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro  
 115 120 125  
 Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser  
 130 135 140  
 Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu  
 145 150 155 160  
 Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro  
 165 170 175  
 Gln Leu His Asn  
 180

<210> 918  
 <211> 281  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 918

Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp  
 1 5 10 15  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 20 25 30  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 35 40 45  
 Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 50 55 60  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 65 70 75 80  
 Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 85 90 95  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 100 105 110  
 Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp  
 115 120 125  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 130 135 140  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp  
 145 150 155 160  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 165 170 175  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp  
 180 185 190  
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp  
 195 200 205  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 210 215 220  
 Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 225 230 235 240  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 245 250 255  
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 260 265 270  
 Glu Gly Lys Asp Glu Gly Lys Asp Lys  
 275 280 281

&lt;210&gt; 919

&lt;211&gt; 147

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 919

Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly  
 1 5 10 15  
 Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile  
 20 25 30  
 Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala  
 35 40 45  
 Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala  
 50 55 60  
 Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser  
 65 70 75 80  
 Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln  
 85 90 95  
 Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro  
 100 105 110  
 Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

```

      115      120      125
Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu
      130      135      140
Tyr Val Pro
145      147

```

```

<210> 920
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

<400> 920
Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg
 1      5      10      15
Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser
      20      25      30
Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp
 35      40      45
Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn
 50      55      60
Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala
 65      70      75      80
Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu
 85      90      95
Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr
      100      105      110
Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe
      115      120      125
Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys
      130      135      140
Met Ala Ile Leu Ala Arg
145      150

```

```

<210> 921
<211> 125
<212>Amino acid
<213> Homo sapiens

```

```

<400> 921
Ile Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu
 1      5      10      15
Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu
      20      25      30
Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser
 35      40      45
Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser
 50      55      60
Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn
 65      70      75      80
Lys Leu Leu Gln Val Leu Arg Ala Leu Val Asp Ile His Val Leu Cys
      85      90      95
Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro
      100      105      110
Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys

```

115

120

125

<210> 922  
 <211> 111  
 <212>Amino acid  
 <213> Homo sapiens

<400> 922  
 Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr  
 1 5 10 15  
 Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu  
 20 25 30  
 Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn  
 35 40 45  
 Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val  
 50 55 60  
 Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp  
 65 70 75 80  
 His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn  
 85 90 95  
 Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys  
 100 105 110 111

<210> 923  
 <211> 69  
 <212>Amino acid  
 <213> Homo sapiens

<400> 923  
 Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp  
 1 5 10 15  
 Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile  
 20 25 30  
 Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr  
 35 40 45  
 Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu  
 50 55 60  
 Leu Leu Asp Ser Lys  
 65 69

<210> 924  
 <211> 120  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> X = any amino acid or stop code

```

<400> 924
Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly
 1           5           10           15
Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu
           20           25           30
Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met
           35           40           45
Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser
           50           55           60
Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys
           65           70           75           80
Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro
           85           90           95
Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser
           100          105          110
Asp Asn Gly Arg Ser Arg Tyr Arg
           115          120

```

```

<210> 925
<211> 108
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(108)
<223> X = any amino acid or stop code

```

```

<400> 925
Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro
 1           5           10           15
Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly
           20           25           30
Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser
           35           40           45
Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe
           50           55           60
Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser
           65           70           75           80
Leu Ile Gly Leu Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly
           85           90           95
Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg
           100          105          108

```

```

<210> 926
<211> 305
<212> Amino acid
<213> Homo sapiens

```

```

<400> 926
Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu
 1           5           10           15
Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

```

20 25 30  
 Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile  
 35 40 45  
 Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala  
 50 55 60  
 Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu  
 65 70 75 80  
 Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr  
 85 90 95  
 Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile  
 100 105 110  
 Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg  
 115 120 125  
 Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile  
 130 135 140  
 Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu  
 145 150 155 160  
 Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu  
 165 170 175  
 Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile  
 180 185 190  
 Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly  
 195 200 205  
 Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly  
 210 215 220  
 Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg  
 225 230 235 240  
 Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Pro Ser Ser Lys Val Ser  
 245 250 255  
 Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr  
 260 265 270  
 Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly  
 275 280 285  
 Lys Glu Gly Ser Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser  
 290 295 300  
 Pro  
 305

<210> 927  
 <211> 303  
 <212> Amino acid  
 <213> Homo sapiens

<400> 927  
 Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro  
 1 5 10 15  
 Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser  
 20 25 30  
 Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu  
 35 40 45  
 Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln  
 50 55 60  
 His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro  
 65 70 75 80  
 Arg Gly Asn Thr Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys  
 85 90 95  
 Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val  
 100 105 110  
 Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser

```

115          120          125
Lys Thr Glu Thr Val Glu Glu Pro Met Glu Glu Glu Glu Ala Ala Lys
130          135          140
Glu Glu Lys Glu Glu Ser Asp Asp Glu Ala Ala Val Glu Glu Glu
145          150          155          160
Glu Glu Lys Lys Pro Lys Thr Lys Lys Val Glu Lys Thr Val Trp Asp
165          170          175
Trp Glu Leu Met Asn Asp Ile Lys Pro Ile Trp Gln Arg Pro Ser Lys
180          185          190
Glu Val Glu Glu Asp Glu Tyr Lys Ala Phe Tyr Lys Ser Phe Ser Lys
195          200          205
Glu Ser Asp Asp Pro Met Ala Tyr Ile His Phe Thr Ala Glu Gly Glu
210          215          220
Val Thr Phe Lys Ser Ile Leu Phe Val Pro Thr Ser Ala Pro Arg Gly
225          230          235
Leu Phe Asp Glu Tyr Gly Ser Lys Lys Ser Asp Tyr Ile Lys Leu Tyr
245          250          255
Val Arg Arg Val Phe Ile Thr Asp Asp Phe His Asp Met Met Pro Lys
260          265          270
Tyr Leu Asn Phe Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu
275          280          285
Asn Val Ser Arg Glu Thr Leu Gln Gln His Lys Leu Leu Lys Val
290          295          300          303

```

```

<210> 928
<211> 147
<212>Amino acid
<213> Homo sapiens

```

```

<400> 928
Cys Gly Ser Trp Met Arg Arg Ala Leu Ile Pro Pro Cys Arg Gly Gly
1          5          10          15
Pro Ser Ala Ser Asp Arg Cys Cys Ser Cys Ser Pro Ser Gly Phe Ser
20          25          30
Ala Gly Arg Gly Arg Cys Pro Val Gln Gly Cys Leu Arg Pro His Arg
35          40          45
Val Gln Leu Leu Arg Arg Trp Gly Pro Gly Ser Pro Ala Gly Gln Arg
50          55          60
Leu Ser Lys Gly Phe Gln Leu Leu Arg Trp Trp Gly Pro Gly Ser Pro
65          70          75          80
Ala Pro Glu Pro Arg Lys Gly Pro Phe Pro Pro Pro Asp Pro Pro Trp
85          90          95
Pro Val Thr Ala Val Thr Val Met Ala Gly Ser Val Pro Ser Ala Gln
100          105          110
Ser Val Asp Ala Leu Glu Ser Pro Gly Pro Leu Ala Leu Glu Gly Pro
115          120          125
Ser Ser Pro Arg Asn Leu Leu Trp Arg Glu Met Ser Ile Phe Leu Pro
130          135          140
Gly Ile Phe
145          147

```

```

<210> 929
<211> 183
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 929

```

Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu
1          5          10          15
Ile Arg Val Glu Thr Pro Gly Pro Pro Ala Pro Pro Ala Asp Glu Arg
          20          25          30
Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp
          35          40          45
Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly
          50          55          60
Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu
          65          70          75          80
Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu
          85          90          95
Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu
          100          105          110
Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu
          115          120          125
Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln
          130          135          140
Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp
          145          150          155          160
Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Val Gly Gln Leu
          165          170          175
Asp Ser Ser Pro Ser Leu Pro
          180          183

```

&lt;210&gt; 930

&lt;211&gt; 187

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

```

Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln
1          5          10          15
His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn
          20          25          30
Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met
          35          40          45
Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr
          50          55          60
Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp
          65          70          75          80
Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp
          85          90          95
Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr
          100          105          110
Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Gln Ile Leu Ala Ser His
          115          120          125
Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His
          130          135          140
Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile
          145          150          155          160
Ile Asn Ile Asn Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp
          165          170          175
Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys
          180          185          187

```



<210> 931  
 <211> 192  
 <212> Amino acid  
 <213> Homo sapiens

<400> 931  
 Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg  
 1 5 10 15  
 Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe  
 20 25 30  
 Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val  
 35 40 45  
 Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Arg Trp Phe  
 50 55 60  
 Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp  
 65 70 75 80  
 Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn  
 85 90 95  
 Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val  
 100 105 110  
 Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly  
 115 120 125  
 Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu  
 130 135 140  
 Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr  
 145 150 155 160  
 His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr  
 165 170 175  
 Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu  
 180 185 190 192

<210> 932  
 <211> 545  
 <212> Amino acid  
 <213> Homo sapiens

<400> 932  
 Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln  
 1 5 10 15  
 Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser  
 20 25 30  
 Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp  
 35 40 45  
 Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly  
 50 55 60  
 Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys  
 65 70 75 80  
 Gln Ile Asp Ile Met Val Ala His Lys Lys Ser Glu Trp Glu Gly Arg  
 85 90 95  
 Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys  
 100 105 110  
 Ser Leu Arg Ser Gln Leu Asp Val Thr His Lys Glu Val Gly Met Leu

115	120	125
His Gln Gln Val Glu Glu	His Glu Lys Ile Lys	Gln Glu Met Thr Met
130	135	140
Glu Tyr Lys Gln Glu Leu	Lys Lys Leu His Glu	Glu Glu Leu Cys Ile Leu
145	150	155
Lys Arg Ser Tyr Glu Lys	Leu Gln Lys Lys	Gln Met Arg Glu Phe Arg
165	170	175
Gly Asn Thr Lys Asn His Arg	Glu Asp Arg Ser Glu	Ile Glu Arg Leu
180	185	190
Thr Ala Lys Ile Glu Glu Phe	Arg Gln Lys Ser Leu	Asp Trp Glu Lys
195	200	205
Gln Arg Leu Ile Tyr Gln	Gln Gln Val Ser Ser	Leu Glu Ala Gln Arg
210	215	220
Lys Ala Leu Ala Glu Gln	Ser Glu Ile Ile Gln	Ala Gln Leu Val Asn
225	230	235
Arg Lys Gln Lys Leu Glu	Ser Val Glu Leu Ser	Ser Gln Ser Glu Ile
245	250	255
Gln His Leu Ser Ser Lys	Leu Glu Arg Ala Asn	Asp Thr Ile Cys Ala
260	265	270
Asn Glu Leu Glu Ile Glu	Arg Leu Thr Met Arg	Val Asn Asp Leu Val
275	280	285
Gly Thr Ser Met Thr Val	Leu Gln Glu Gln Lys	Glu Glu Lys
290	295	300
Leu Arg Glu Ser Glu Lys	Leu Leu Glu Ala Leu	Gln Glu Glu Lys Arg
305	310	315
Glu Leu Lys Ala Ala Leu	Gln Ser Gln Glu Asn	Leu Ile His Glu Ala
325	330	335
Arg Ile Gln Lys Glu Lys	Leu Gln Glu Lys Val	Lys Ala Thr Asn Thr
340	345	350
Gln His Ala Val Glu Ala	Ile Ser Leu Glu Ser	Val Ser Ala Thr Cys
355	360	365
Lys Gln Leu Ser Gln Glu	Leu Met Glu Lys Tyr	Glu Glu Leu Lys Arg
370	375	380
Met Glu Ala His Asn Asn	Glu Tyr Lys Ala Glu	Ile Lys Lys Leu Lys
385	390	395
Glu Gln Ile Leu Gln Gly	Glu Glu Ser Tyr Ser	Ser Ala Leu Glu Gly
405	410	415
Met Lys Met Glu Ile Ser	His Leu Thr Gln Glu	Leu His Gln Arg Asp
420	425	430
Ile Thr Ile Ala Ser Thr	Lys Gly Ser Ser Ser	Asp Met Glu Lys Arg
435	440	445
Leu Arg Ala Glu Met Gln	Lys Ala Glu Asp Lys	Ala Val Glu His Lys
450	455	460
Glu Ile Leu Asp Gln Leu	Glu Ser Leu Lys Leu	Glu Asn Arg His Leu
465	470	475
Ser Glu Met Val Met Lys	Leu Glu Leu Glu His	Glu Cys Ser Leu
485	490	495
Pro Val Ser Pro Leu Gly	Ser Ile Ala Thr Arg	Phe Leu Glu Glu Glu
500	505	510
Glu Leu Arg Ser His His	Ile Leu Glu Arg Leu	Asp Ala His Ile Glu
515	520	525
Glu Leu Lys Arg Glu Ser	Glu Lys Thr Val Arg	Gln Phe Thr Ala Leu
530	535	540
Lys		
545		

<210> 933  
 <211> 297  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 933

```

Thr Gly Phe Leu Gly Trp Ser Gln Gly Pro Ser Leu Thr Pro Thr Ser
1          5          10
Leu Ser Ala Leu Tyr Pro Ser Gln Val Glu Glu Thr Gly Val Val Leu
          20          25          30
Ser Leu Glu Gln Thr Glu Gln His Ser Arg Arg Pro Ile Gln Arg Gly
          35          40          45
Ala Pro Ser Gln Lys Asp Thr Pro Asn Pro Gly Asp Ser Leu Asp Thr
          50          55          60
Pro Gly Pro Arg Ile Leu Ala Phe Leu His Pro Pro Ser Leu Ser Glu
65          70          75          80
Ala Ala Leu Ala Ala Asp Pro Arg Arg Phe Cys Ser Pro Asp Leu Arg
          85          90          95
Arg Leu Leu Gly Pro Ile Leu Asp Gly Ala Ser Val Ala Ala Thr Pro
          100          105          110
Ser Thr Pro Leu Ala Thr Arg His Pro Gln Ser Pro Leu Ser Ala Asp
          115          120          125
Leu Pro Asp Glu Leu Pro Val Gly Thr Glu Asn Val His Arg Leu Phe
          130          135          140
Thr Ser Gly Lys Asp Thr Glu Ala Val Glu Thr Asp Leu Asp Ile Ala
145          150          155          160
Gln Asp Ala Asp Ala Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Ser
          165          170          175
Met Asp Asp Asp Phe Gln Leu Asn Ala Ser Glu Gln Leu Pro Arg Ala
180          185          190
Tyr His Arg Pro Leu Gly Ala Val Pro Arg Pro Arg Ala Arg Ser Phe
          195          200          205
His Gly Leu Ser Pro Pro Ala Leu Glu Pro Ser Leu Leu Pro Arg Trp
          210          215          220
Gly Ser Asp Pro Arg Leu Ser Cys Ser Ser Pro Ser Arg Gly Asp Pro
225          230          235          240
Ser Ala Ser Ser Pro Met Ala Gly Ala Arg Lys Arg Thr Leu Ala Gln
          245          250          255
Ser Ser Lys Asp Glu Asp Glu Gly Val Glu Leu Leu Gly Val Arg Pro
260          265          270
Pro Lys Arg Ser Pro Ser Pro Glu His Glu Asn Phe Leu Leu Phe Pro
275          280          285
Leu Ser Leu Ser Phe Leu Leu Thr Gly
290          295          297

```

&lt;210&gt; 934

&lt;211&gt; 140

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 934

```

Glu Leu Gln Asp Cys Phe Asp Val His Asp Ala Ser Trp Glu Glu Gln
1          5          10          15
Ile Phe Trp Gly Trp His Asn Asp Val His Ile Phe Asp Thr Lys Thr
          20          25          30
Gln Thr Trp Phe Gln Pro Glu Ile Lys Gly Gly Val Pro Pro Gln Pro
          35          40          45
Arg Ala Ala His Thr Cys Ala Val Leu Gly Asn Lys Gly Tyr Ile Phe
          50          55          60
Gly Gly Arg Val Leu Gln Thr Arg Met Asn Asp Leu His Tyr Leu Asn
65          70          75          80
Leu Asp Thr Trp Thr Trp Ser Gly Arg Ile Thr Ile Asn Gly Glu Ser

```

85										90					95				
Pro	Lys	His	Arg	Ser	Trp	His	Thr	Leu	Thr	Pro	Ile	Ala	Asp	Asp	Lys				
			100					105						110					
Leu	Phe	Leu	Cys	Gly	Gly	Leu	Asn	Ala	Tyr	Asn	Met	Pro	Leu	Ser	Asp				
		115					120						125						
Gly	Trp	Ile	His	Asn	Val	Thr	Thr	His	Cys	Trp	Lys								
	130					135					140								

```
<210> 935
<211> 97
<212> Amino acid
<213> Homo sapiens
```

[illegible]

```
<210> 936
<211> 245
<212> Amino acid
<213> Homo sapiens
```

<400> 936																	
Pro	Arg	Glu	Gly	Gln	Val	Lys	Gln	Gly	Leu	Gly	Asp	Cys	Trp	Phe			
1				5				10				15					
Leu	Cys	Ala	Cys	Ala	Ala	Leu	Gln	Lys	Ser	Arg	His	Leu	Leu	Asp	Gln		
			20					25				30					
Val	Ile	Pro	Pro	Gly	Gln	Pro	Ser	Trp	Ala	Asp	Gln	Glu	Tyr	Arg	Gly		
		35					40				45						
Ser	Phe	Thr	Cys	Arg	Ile	Trp	Gln	Phe	Gly	Arg	Trp	Val	Glu	Val	Thr		
	50				55					60							
Thr	Asp	Asp	Arg	Leu	Pro	Cys	Leu	Ala	Gly	Arg	Leu	Cys	Phe	Ser	Arg	80	
65					70				75								
Cys	Gln	Arg	Glu	Asp	Val	Phe	Trp	Leu	Pro	Leu	Leu	Glu	Lys	Val	Tyr		
				85					90				95				
Ala	Lys	Val	His	Gly	Ser	Tyr	Glu	His	Leu	Trp	Ala	Gly	Gln	Val	Ala		
			100					105					110				
Asp	Ala	Leu	Val	Asp	Leu	Thr	Gly	Gly	Leu	Ala	Glu	Arg	Trp	Asn	Leu		
		115					120					125					
Lys	Gly	Val	Ala	Gly	Ser	Gly	Gly	Gln	Gln	Asp	Arg	Pro	Gly	Arg	Trp		
	130				135						140						
Glu	His	Arg	Thr	Cys	Arg	Gln	Leu	Leu	His	Leu	Lys	Asp	Gln	Cys	Leu		

```

145                               150                               155                               160
Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly Glu Ala Arg Gly Gln
                               165                               170                               175
His Gly Arg Ala Ala Ser Val Pro Thr Ala Arg Pro Gln Ala
                               180                               185                               190
His Cys Ser Phe Leu Cys Asp Trp Leu His Ser Pro Val Arg Thr Lys
                               195                               200                               205
Trp Glu Glu Val Ser Leu Phe Ser Arg Val Val Ser Ser Val Cys Asp
                               210                               215                               220
Leu Pro Leu Leu Ser Ser Arg Gly Thr Trp Pro Phe Ser Pro Leu
225                               230                               235                               240
Thr Ser Pro Phe His
                               245

```

```

<210> 937
<211> 211
<212> Amino acid
<213> Homo sapiens

```

```

<400> 937
Ala Glu Cys Leu Glu Ala Ser Ile Ala Arg Tyr Ala His Arg Val Ala
1                               5                               10                               15
Asn Ser Arg Tyr Thr Phe Asp Gly Glu Thr Val Thr Leu Ser Pro Ser
                               20                               25                               30
Gln Gly Val Asn Gln Leu His Gly Gly Pro Glu Gly Phe Asp Lys Arg
                               35                               40                               45
Arg Trp Gln Ile Val Asn Gln Asn Asp Arg Gln Val Leu Phe Ala Leu
                               50                               55                               60
Ser Ser Asp Asp Gly Asp Gln Gly Phe Pro Gly Asn Leu Gly Ala Thr
65                               70                               75                               80
Val Gln Tyr Arg Leu Thr Asp Asp Asn Arg Ile Ser Ile Thr Tyr Arg
                               85                               90                               95
Ala Thr Val Asp Lys Pro Cys Pro Val Asn Met Thr Asn His Val Tyr
                               100                              105                              110
Phe Asn Leu Asp Gly Glu Gln Ser Asp Val Arg Asn His Lys Leu Gln
                               115                              120                              125
Ile Leu Ala Asp Glu Tyr Leu Pro Val Asp Glu Gly Gly Ile Pro His
130                              135                              140
Asp Gly Leu Lys Ser Val Ala Gly Thr Ser Phe Asp Phe Arg Ser Ala
145                              150                              155                              160
Lys Ile Ile Ala Ser Glu Phe Leu Ala Asp Asp Gln Arg Lys Val
                               165                              170                              175
Lys Gly Tyr Asp His Ala Phe Leu Leu Gln Ala Lys Gly Asp Gly Lys
                               180                              185                              190
Lys Val Ala Ala His Val Trp Ser Ala Asp Glu Lys Leu Gln Leu Lys
                               195                              200                              205
Val Tyr Thr
210 211

```

```

<210> 938
<211> 118
<212> Amino acid
<213> Homo sapiens

```

&lt;400&gt; 938

```

Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met
 1              5              10              15
Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln
      20              25              30
His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu
      35              40              45
Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu
      50              55              60
His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala
 65              70              75              80
Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn
      85              90              95
Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg
      100              105              110
Ala Ser Cys Leu Phe Leu
      115              118

```

&lt;210&gt; 939

&lt;211&gt; 143

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 939

```

Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu Glu
 1              5              10              15
Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu
      20              25              30
Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe
      35              40              45
Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser
      50              55              60
Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr
 65              70              75              80
Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln
      85              90              95
Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu
      100              105              110
Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu
      115              120              125
Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu
      130              135              140              143

```

&lt;210&gt; 940

&lt;211&gt; 63

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 940

```

Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro
 1              5              10              15
Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu
      20              25              30
Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

```

35					40					45				
Asn	Pro	Gly	His	Ser	Gln	Pro	Gln	Asp	Ser	Phe	Leu	Leu	*	
50					55					60		62		

```
<210> 941
<211> 238
<212> Amino acid
<213> Homo sapiens
```

<400> 941																	
Phe	Glu	Thr	Leu	Ser	Met	Arg	Gly	Ile	Pro	His	Met	Leu	Ala	Leu	Gly		
1				5					10					15			
Pro	Gln	Gln	Leu	Leu	Ala	Gln	Asp	Glu	Glu	Gly	Asp	Thr	Leu	Leu	His		
			20					25					30				
Leu	Phe	Ala	Ala	Arg	Gly	Leu	Arg	Trp	Ala	Ala	Tyr	Ala	Ala	Ala	Glu		
		35					40					45					
Val	Leu	Gln	Val	Tyr	Arg	Arg	Leu	Asp	Ile	Arg	Glu	His	Lys	Gly	Lys		
		50				55					60						
Thr	Pro	Leu	Leu	Val	Ala	Ala	Ala	Ala	Asn	Gln	Pro	Leu	Ile	Val	Glu		
65					70					75					80		
Asp	Leu	Leu	Asn	Leu	Gly	Ala	Glu	Pro	Asn	Ala	Ala	Asp	His	Gln	Gly		
			85						90					95			
Arg	Ser	Val	Leu	His	Val	Ala	Ala	Thr	Tyr	Gly	Leu	Pro	Gly	Val	Leu		
		100						105					110				
Leu	Ala	Val	Leu	Asn	Ser	Gly	Val	Gln	Val	Asp	Leu	Glu	Ala	Arg	Asp		
		115				120						125					
Phe	Glu	Gly	Leu	Thr	Pro	Leu	His	Thr	Ala	Ile	Leu	Ala	Leu	Asn	Val		
	130					135					140						
Ala	Met	Arg	Pro	Ser	Asp	Leu	Cys	Pro	Arg	Val	Leu	Ser	Thr	Gln	Ala		
145					150					155					160		
Arg	Asp	Arg	Leu	Asp	Cys	Val	His	Met	Leu	Leu	Gln	Met	Gly	Ala	Asn		
				165				170						175			
His	Thr	Ile	Gln	Val	Ser	Gly	Asp	Val	Gly	Gly	Gln	Thr	Leu	Gly	Asp		
		180						185					190				
Cys	Val	Glu	Trp	Gly	His	Leu	Asp	Val	Arg	Glu	Leu	Gln	Ala	Asn	Ala		
		195				200						205					
Asp	Phe	Ala	Ser	Ser	Leu	Leu	Arg	Ala	Leu	Glu	His	Val	Thr	Ser	Leu		
	210					215					220						
Leu	Cys	Ala	Leu	Arg	Val	Phe	Cys	Leu	Phe	Leu	Cys	Gln	Leu				
225				230					235				238				

```
<210> 942
<211> 158
<212> Amino acid
<213> Homo sapiens
```

<400> 942

Asp	Ala	Trp	Ala	Asp	Ala	Trp	Val	Gly	Thr	Lys	Met	Ala	Asp	Leu	Asp
1				5				10						15	
Ser	Pro	Pro	Lys	Glu	Ser	Gly	Val	Gln	Gln	Pro	Ser	Glu	Gly	Val	Gly
			20					25					30		
Gly	Gly	Arg	Cys	Ser	Glu	Ile	Ser	Ala	Glu	Leu	Ile	Arg	Ser	Leu	Thr
		35					40					45			
Glu	Leu	Gln	Glu	Leu	Glu	Ala	Val	Tyr	Glu	Arg	Leu	Cys	Gly	Glu	Glu

50				55				60							
Lys	Val	Val	Glu	Arg	Glu	Leu	Asp	Ala	Leu	Leu	Glu	Gln	Gln	Asn	Thr
65					70				75					80	
Ile	Glu	Ser	Lys	Met	Val	Thr	Leu	His	Arg	Met	Gly	Pro	Asn	Leu	Gln
				85					90					95	
Leu	Ile	Glu	Gly	Asp	Ala	Lys	Gln	Leu	Ala	Gly	Met	Ile	Thr	Phe	Thr
			100					105					110		
Cys	Asn	Leu	Ala	Glu	Asn	Val	Ser	Ser	Lys	Val	Arg	Gln	Leu	Asp	Leu
			115				120					125			
Ala	Lys	Asn	Arg	Leu	Tyr	Gln	Ala	Ile	Gln	Arg	Ala	Asp	Asp	Ile	Leu
			130			135					140				
Asp	Leu	Lys	Phe	Cys	Met	Asp	Gly	Val	Gln	Thr	Ala	Leu	Arg		
145				150					155				158		

```
<210> 943
<211> 235
<212> Amino acid
<213> Homo sapiens
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<div> <div>&lt;400&gt;</div> <div>943</div> </div>																	
Ala	Val	Glu	Phe	Arg	Val	Pro	Arg	Ser	Gly	Ser	Ala	Tyr	Leu	Tyr	Ser		
1				5					10					15			
Tyr	Val	Thr	Val	Gly	Glu	Leu	Trp	Ala	Phe	Thr	Thr	Gly	Trp	Asn	Leu		
			20					25					30				
Ile	Leu	Ser	Tyr	Val	Ile	Gly	Thr	Ala	Ser	Val	Ala	Arg	Ala	Trp	Ser		
			35				40					45					
Ser	Ala	Phe	Asp	Asn	Leu	Ile	Gly	Asn	His	Ile	Ser	Lys	Thr	Leu	Gln		
	50				55					60							
Gly	Ser	Ile	Ala	Leu	His	Val	Pro	His	Val	Leu	Ala	Glu	Tyr	Pro	Asp		
	65			70					75					80			
Phe	Phe	Ala	Leu	Gly	Leu	Val	Leu	Leu	Leu	Thr	Gly	Leu	Leu	Ala	Leu		
			85					90					95				
Gly	Ala	Ser	Glu	Ser	Ala	Leu	Val	Thr	Lys	Val	Phe	Thr	Gly	Val	Asn		
			100					105					110				
Leu	Leu	Val	Leu	Gly	Phe	Val	Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp		
			115			120						125					
Val	His	Asn	Trp	Lys	Leu	Thr	Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala		
	130				135						140						
Glu	Leu	Asn	Asp	Thr	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe		
	145				150				155					160			
Val	Pro	Phe	Gly	Phe	Glu	Gly	Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe		
			165					170						175			
Tyr	Ala	Phe	Val	Gly	Phe	Asp	Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala		
			180			185							190				
Gln	Asn	Pro	Gln	Arg	Ser	Ile	Pro	Met	Gly	Ile	Gly	Ile	Ser	Leu	Ser		
		195				200					205						
Val	Cys	Phe	Leu	Ala	Asp	Phe	Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met		
	210				215						220						
Met	Pro	Tyr	Tyr	Gln	Leu	Gln	Pro	Glu	Ser	Pro							
	225			230					235								

```
<210> 944
<211> 284
<212> Amino acid
<213> Homo sapiens
```



&lt;400&gt; 944

Gly Phe His Pro Asn Thr Thr His Tyr Arg Ala Arg Ala Ala Arg  
 1 5 10 15  
 Ala Gly Ala Gly Ser Phe Val Gly Glu Val Ser Ala Val Asp Lys Asp  
 20 25 30  
 Phe Gly Pro Asn Gly Glu Val Arg Tyr Ser Phe Glu Met Val Gln Pro  
 35 40 45  
 Asp Phe Glu Leu His Ala Ile Ser Gly Glu Ile Thr Asn Thr His Gln  
 50 55 60  
 Phe Asp Arg Glu Ser Leu Met Arg Arg Arg Gly Thr Ala Val Phe Ser  
 65 70 75 80  
 Phe Thr Val Ile Ala Thr Asp Gln Gly Ile Pro Gln Pro Leu Lys Asp  
 85 90 95  
 Gln Ala Thr Val His Val Tyr Met Lys Asp Ile Asn Asp Asn Ala Pro  
 100 105 110  
 Lys Phe Leu Lys Asp Phe Tyr Gln Ala Thr Ile Ser Glu Ser Ala Ala  
 115 120 125  
 Asn Leu Thr Gln Val Leu Arg Val Ser Ala Ser Asp Val Asp Glu Gly  
 130 135 140  
 Asn Asn Gly Leu Ile His Tyr Ser Ile Ile Lys Gly Asn Glu Glu Arg  
 145 150 155 160  
 Gln Phe Ala Ile Asp Ser Thr Ser Gly Gln Val Thr Leu Ile Gly Lys  
 165 170 175  
 Leu Asp Tyr Glu Ala Thr Pro Ala Tyr Ser Leu Val Ile Gln Ala Val  
 180 185 190  
 Asp Ser Gly Thr Ile Pro Leu Asn Ser Thr Cys Thr Leu Asn Ile Asp  
 195 200 205  
 Ile Leu Asp Glu Asn Asp Asn Thr Pro Phe Phe Leu Leu Asn Gln His  
 210 215 220  
 Phe Phe Val Asp Val Leu Glu Asn Met Arg Ile Gly Glu Leu Gly Ala  
 225 230 235 240  
 Ser Gly Thr Ala Thr Asp Ser Asp Ser Gly Asp Ile Ala Asp Leu Tyr  
 245 250 255  
 Tyr Lys Phe Thr Gly Thr Lys His Pro Pro Gly Thr Phe Ser Ile Ser  
 260 265 270  
 Pro Lys His Leu Gly Val Phe Phe Leu Ala Gln Lys  
 275 280 284

&lt;210&gt; 945

&lt;211&gt; 119

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 945

Gly Asp Cys Tyr Asp Leu Tyr Gly Gly Glu Lys Phe Ala Thr Leu Ala  
 1 5 10 15  
 Glu Leu Val Gln Tyr Tyr Met Glu His His Gly Gln Leu Lys Glu Lys  
 20 25 30  
 Asn Gly Asp Val Ile Glu Leu Lys Asn Pro Leu Asn Cys Ala Asp Pro  
 35 40 45  
 Thr Ser Gln Arg Trp Phe His Gly His Leu Ser Gly Lys Glu Ala Glu  
 50 55 60  
 Lys Leu Leu Thr Glu Lys Gly Lys His Ser Ser Phe Leu Val Arg Glu  
 65 70 75 80  
 Ser Gln Ser His Pro Gly Asp Phe Val Leu Ser Val Cys Thr Gly Asp  
 85 90 95  
 Asp Lys Gly Glu Ser Asn Asp Gly Lys Ser Lys Val Thr His Val Met

		100				105		110
Ile	His	Cys	Gln	Glu	Leu	Lys		
		115				119		

<210> 946  
 <211> 166  
 <212> Amino acid  
 <213> Homo sapiens

<400> 946

Ile	Asp	Ser	Gly	Asn	Gln	Asn	Gly	Gly	Asn	Asp	Asp	Lys	Thr	Lys	Asn
1				5					10					15	
Ala	Glu	Arg	Asn	Tyr	Leu	Asn	Val	Leu	Pro	Gly	Glu	Phe	Tyr	Ile	Thr
			20					25					30		
Arg	His	Ser	Asn	Leu	Ser	Glu	Ile	His	Val	Ala	Phe	His	Leu	Cys	Val
		35				40					45				
Asp	Asp	His	Val	Lys	Ser	Gly	Asn	Ile	Thr	Ala	Arg	Asp	Pro	Ala	Ile
	50					55					60				
Met	Gly	Leu	Arg	Asn	Ile	Leu	Lys	Val	Cys	Cys	Thr	His	Asp	Ile	Thr
	65				70					75				80	
Thr	Ile	Ser	Ile	Pro	Leu	Leu	Leu	Val	His	Asp	Met	Ser	Glu	Glu	Met
				85					90					95	
Thr	Ile	Pro	Trp	Cys	Leu	Arg	Arg	Ala	Glu	Leu	Val	Phe	Lys	Cys	Val
		100						105					110		
Lys	Gly	Phe	Met	Met	Glu	Met	Ala	Ser	Trp	Asp	Gly	Gly	Ile	Ser	Arg
		115						120					125		
Thr	Val	Gln	Phe	Leu	Val	Pro	Gln	Ser	Ile	Ser	Glu	Glu	Met	Phe	Tyr
	130						135					140			
Gln	Leu	Ser	Asn	Met	Leu	Pro	Gln	Ile	Phe	Arg	Val	Ser	Ser	Thr	Leu
	145				150					155					160
Thr	Leu	Thr	Ser	Lys	His										
				165	166										

<210> 947  
 <211> 121  
 <212> Amino acid  
 <213> Homo sapiens

<400> 947

Ser	Ile	Leu	Pro	Ala	Leu	Leu	Val	Thr	Ile	Leu	Ile	Phe	Met	Asp	Gln
1				5					10					15	
Gln	Ile	Thr	Ala	Val	Ile	Val	Asn	Arg	Lys	Glu	Asn	Lys	Leu	Lys	Lys
			20					25					30		
Ala	Ala	Gly	Tyr	His	Leu	Asp	Leu	Phe	Trp	Val	Gly	Ile	Leu	Met	Ala
		35				40					45				
Leu	Cys	Ser	Phe	Met	Gly	Leu	Pro	Trp	Tyr	Val	Ala	Ala	Thr	Val	Ile
	50					55					60				
Ser	Ile	Ala	His	Ile	Asp	Ser	Leu	Lys	Met	Glu	Thr	Glu	Thr	Ser	Ala
	65				70					75				80	
Pro	Gly	Glu	Gln	Pro	Gln	Phe	Leu	Gly	Val	Arg	Glu	Gln	Arg	Val	Thr
				85				90						95	
Gly	Ile	Ile	Val	Phe	Ile	Leu	Thr	Gly	Ile	Ser	Val	Phe	Leu	Ala	Pro
		100					105					110			
Ile	Leu	Lys	Cys	Ile	Pro	Leu	Pro	Val							

115

120 121

<210> 948  
 <211> 191  
 <212> Amino acid  
 <213> Homo sapiens

<400> 948  
 Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp  
 1 5 10 15  
 Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr  
 20 25 30  
 Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr  
 35 40 45  
 Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val  
 50 55 60  
 Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser  
 65 70 75 80  
 Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser  
 85 90 95  
 Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile  
 100 105 110  
 Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly  
 115 120 125  
 Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp  
 130 135 140  
 Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr  
 145 150 155 160  
 Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val  
 165 170 175  
 Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser  
 180 185 190 191

<210> 949  
 <211> 98  
 <212> Amino acid  
 <213> Homo sapiens

<400> 949  
 Phe Phe Ser Ser Ile Gln Leu Thr Asp Asn Gln Gly Pro Val Leu Met  
 1 5 10 15  
 Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser  
 20 25 30  
 Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu  
 35 40 45  
 Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro  
 50 55 60  
 Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser  
 65 70 75 80  
 Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr  
 85 90 95  
 Ala Cys  
 98

<210> 950  
 <211> 196  
 <212> Amino acid  
 <213> Homo sapiens

<400> 950  
 Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser  
 1 5 10 15  
 Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr  
 20 25 30  
 Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr  
 35 40 45  
 Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln  
 50 55 60  
 Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg  
 65 70 75 80  
 Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu  
 85 90 95  
 Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val  
 100 105 110  
 Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile  
 115 120 125  
 Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val  
 130 135 140  
 Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala  
 145 150 155 160  
 Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val  
 165 170 175  
 Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Ile  
 180 185 190  
 His Pro Gln Tyr  
 195 196

<210> 951  
 <211> 721  
 <212> Amino acid  
 <213> Homo sapiens

<400> 951  
 Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr  
 1 5 10 15  
 Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Val Gly  
 20 25 30  
 Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu  
 35 40 45  
 Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile  
 50 55 60  
 Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Met Leu Asn Asn  
 65 70 75 80  
 Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val  
 85 90 95  
 Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly  
 100 105 110  
 Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

[illegible]

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625                630                635                640
Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu
        645                650                655
Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe
        660                665                670
Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met
        675                680                685
Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys
        690                695                700
Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala
705                710                715                720
Met
721

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<210> 952
<211> 42
<212>Amino acid
<213> Homo sapiens

```

```

<400> 952
Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys
 1                5                10                15
Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala
        20                25                30
Ser Gly Ser Asp Asp Ala Lys Gly Thr Val
        35                40                42

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<210> 953
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 953
Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu
 1                5                10                15
Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala
        20                25                30
Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val
        35                40                45
Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile
        50                55                60
Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro
        65                70                75                80

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```

<210> 954
<211> 202
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 954

Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val  
 1 5 10 15  
 Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu  
 20 25 30  
 Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys  
 35 40 45  
 His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly  
 50 55 60  
 Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn  
 65 70 75 80  
 Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro  
 85 90 95  
 Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg  
 100 105 110  
 Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu  
 115 120 125  
 Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr  
 130 135 140  
 Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala  
 145 150 155 160  
 Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu  
 165 170 175  
 Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr  
 180 185 190  
 Pro Val Gly Asp Pro Met Asp Leu Lys Met  
 195 200 202

&lt;210&gt; 955

&lt;211&gt; 188

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr  
 1 5 10 15  
 Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln  
 20 25 30  
 Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu  
 35 40 45  
 Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln  
 50 55 60  
 Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser  
 65 70 75 80  
 His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala  
 85 90 95  
 Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln  
 100 105 110  
 Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys  
 115 120 125  
 Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile  
 130 135 140  
 Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr  
 145 150 155 160  
 Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala  
 165 170 175  
 Asn Arg Leu Gln Asp Ala Ile Ala Lys Gly Arg Gly

180

185

188

<210> 956  
 <211> 132  
 <212> Amino acid  
 <213> Homo sapiens

<400> 956  
 Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly  
 1 5 10 15  
 Glu Ala Val Thr Glu Ser Pro Ala Pro Asn Glu Ala Thr Pro  
 20 25 30  
 Thr Ala Ala Pro Pro Thr Leu Pro Thr Thr Val Gly Ala Thr Gly  
 35 40 45  
 Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala  
 50 55 60  
 Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr  
 65 70 75 80  
 Thr Thr Thr Val Ala Thr Thr Thr Thr Thr Ala Ala Thr Thr  
 85 90 95  
 Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu  
 100 105 110  
 Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn  
 115 120 125  
 Ser Lys Trp Ala  
 130 132

<210> 957  
 <211> 220  
 <212> Amino acid  
 <213> Homo sapiens

<400> 957  
 Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser  
 1 5 10 15  
 Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr  
 20 25 30  
 Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala  
 35 40 45  
 Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala  
 50 55 60  
 Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr  
 65 70 75 80  
 Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser  
 85 90 95  
 Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn  
 100 105 110  
 Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly  
 115 120 125  
 Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp  
 130 135 140  
 Phe Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe  
 145 150 155 160  
 Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser



165										170				175			
Asp	Pro	Phe	Ser	Ser	Ser	Val	Ser	Ser	Lys	Gly	Ser	Asp	Pro	Phe			
180										185				190			
Gly	Thr	Leu	Asp	Pro	Phe	Gly	Ser	Gly	Ser	Phe	Asn	Ser	Ala	Glu			
195										200				205			
Phe	Ala	Asp	Phe	Ser	Thr	Ile	Glu	Gly	Arg	Arg	Gly						
210										215				220			

```
<210> 958
<211> 250
<212> Amino acid
<213> Homo sapiens
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Arg	Thr	Arg	Gly	Gly	Ser	Gly	Asn	Ser	Ser	Gln	Pro	Ser	Leu	Arg	Glu
1				5				10						15	
Gly	His	Asp	Lys	Pro	Val	Phe	Asn	Gly	Ala	Gly	Lys	Pro	His	Ser	Ser
			20					25					30		
Thr	Ser	Ser	Pro	Ser	Val	Pro	Lys	Thr	Ser	Ala	Ser	Arg	Thr	Gln	Lys
			35				40					45			
Ser	Ala	Val	Glu	His	Lys	Ala	Lys	Lys	Ser	Leu	Ser	His	Pro	Ser	His
	50					55					60				
Ser	Arg	Pro	Gly	Pro	Met	Val	Thr	Pro	His	Asn	Lys	Ala	Lys	Ser	Pro
	65				70					75					80
Gly	Val	Arg	Gln	Pro	Gly	Ser	Ser	Ser	Ser	Ala	Pro	Gly	Gln	Pro	
				85				90					95		
Ser	Thr	Gly	Val	Ala	Arg	Pro	Thr	Val	Ser	Ser	Gly	Pro	Val	Pro	Arg
			100					105					110		
Arg	Gln	Asn	Gly	Ser	Ser	Ser	Ser	Gly	Pro	Glu	Arg	Ser	Ile	Ser	Gly
			115				120					125			
Ser	Lys	Lys	Pro	Thr	Asn	Asp	Ser	Asn	Pro	Ser	Arg	Arg	Thr	Val	Ser
	130					135					140				
Gly	Thr	Cys	Gly	Pro	Gly	Gln	Pro	Ala	Ser	Ser	Ser	Gly	Gly	Pro	Gly
145					150					155				160	
Arg	Pro	Ile	Ser	Gly	Ser	Val	Ser	Ser	Ala	Arg	Pro	Leu	Gly	Ser	Ser
			165					170					175		
Arg	Gly	Pro	Gly	Arg	Pro	Val	Ser	Ser	Pro	His	Glu	Leu	Arg	Arg	Pro
			180					185					190		
Val	Ser	Gly	Leu	Gly	Pro	Pro	Gly	Arg	Ser	Val	Ser	Gly	Pro	Gly	Arg
		195					200					205			
Ser	Ile	Ser	Gly	Ser	Ile	Pro	Ala	Gly	Arg	Thr	Val	Ser	Asn	Ser	Val
	210					215					220				
Pro	Gly	Arg	Pro	Val	Ser	Ser	Leu	Gly	Pro	Gly	Gln	Thr	Val	Ser	Ser
225					230					235					240
Ser	Gly	Pro	Thr	Ile	Lys	Pro	Lys	Cys	Thr						
				245				250							

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<210> 959
<211> 48
<212> Amino acid
<213> Homo sapiens
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<400> 959  
Arg Gly Lys Gly Ile Thr Pro Arg Tyr His Leu Cys Ile Ser Asp Pro

1	5	10	15
His Asn Leu Lys	Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser		
20	25	30	
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp			
35	40	45	48

<210> 960  
 <211> 63  
 <212> Amino acid  
 <213> Homo sapiens

<400> 960
Val Val Ala Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu
1 5 10 15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly
20 25 30
Glu Val Ala Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala
35 40 45
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met
50 55 60 63

<210> 961  
 <211> 59  
 <212> Amino acid  
 <213> Homo sapiens

<400> 961
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr
1 5 10 15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro
20 25 30
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val
35 40 45
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu
50 55 59

<210> 962  
 <211> 140  
 <212> Amino acid  
 <213> Homo sapiens

<400> 962
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg
1 5 10 15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu
20 25 30
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro

```

      35              40              45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln
  50              55              60
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg
  65              70              75              80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His
      85              90              95
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser
  100              105              110
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu
  115              120              125
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp
  130              135              140

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<210> 963  
 <211> 153  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 963
Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln
  1              5              10              15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser
      20              25              30
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys
  35              40              45
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln
  50              55              60
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys
  65              70              75              80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu
      85              90              95
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe
  100              105              110
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr
  115              120              125
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe
  130              135              140
Lys Gly Leu Asn Val Leu Lys Gln Cys
  145              150              153

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<210> 964  
 <211> 54  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 964
Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala
  1              5              10              15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly
      20              25              30
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys
  35              40              45
Gly Lys Glu Ile Val Lys

```

50

54

<210> 965  
 <211> 39  
 <212>Amino acid  
 <213> Homo sapiens

<400> 965  
 Gly Phe Val Phe Leu Pro Gly Pro Met Ser Val Gly Leu Asp Phe Ser  
 1 5 10 15  
 Leu Pro Gly Met Glu His Val Tyr Gly Ile Pro Glu His Ala Asp Asn  
 20 25 30  
 Leu Arg Leu Lys Val Thr Glu  
 35 39

<210> 966  
 <211> 130  
 <212>Amino acid  
 <213> Homo sapiens

<400> 966  
 Gly Ser Glu Cys Gln Gly Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser  
 1 5 10 15  
 Asp Leu Cys Val His Thr Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr  
 20 25 30  
 Val Gly Leu Ile Ala Val Ala Val Cys Leu Val Leu Leu Leu Val  
 35 40 45  
 Leu Ile Leu Val Tyr Cys Arg Lys Lys Glu Gly Leu Asp Ser Asp Val  
 50 55 60  
 Ala Asp Ser Ser Ile Leu Thr Ser Gly Phe Gln Pro Val Ser Ile Lys  
 65 70 75 80  
 Pro Ser Lys Ala Asp Asn Pro His Leu Leu Thr Ile Gln Pro Asp Leu  
 85 90 95  
 Ser Thr Thr Thr Thr Tyr Gln Gly Ser Leu Cys Pro Arg Gln Asp  
 100 105 110  
 Gly Pro Ser Pro Lys Phe Gln Leu Thr Asn Gly His Leu Leu Ser Pro  
 115 120 125  
 Leu Gly  
 130

<210> 967  
 <211> 259  
 <212>Amino acid  
 <213> Homo sapiens

<400> 967  
 Leu Ile Tyr Asn Glu Asp Met Ile Cys Trp Ile Glu Ser Arg Glu Ser  
 1 5 10 15  
 Ser Asn Gln Leu Lys Cys Ile Gln Ile Thr Lys Ala Gly Gly Leu Thr

```

      20      25      30
Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln
  35      40      45
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val
  50      55      60
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr
  65      70      75      80
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro
      85      90      95
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val
  100      105      110
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser
  115      120      125
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu
  130      135      140
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr
  145      150      155      160
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His
      165      170      175
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser
  180      185      190
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile
  195      200      205
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln
  210      215      220
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro
  225      230      235      240
Tyr Gly Met Pro Gly Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser
      245      250      255
Tyr Thr Lys
      259

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<210> 968
<211> 161
<212> Amino acid
<213> Homo sapiens

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```

<400> 968
Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly
  1      5      10      15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln
      20      25      30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser
  35      40      45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn
  50      55      60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala
  65      70      75      80
Ser Val Arg Ala Thr His Pro Ile Pro Ala Ala Cys Gly Ile Tyr Tyr
      85      90      95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile
  100      105      110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp
  115      120      125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser
  130      135      140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val
  145      150      155      160
Ile

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161

<210> 969  
 <211> 76  
 <212> Amino acid  
 <213> Homo sapiens

<400> 969  
 Phe Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val  
 1 5 10 15  
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr  
 20 25 30  
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro  
 35 40 45  
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His  
 50 55 60  
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser  
 65 70 75 76

<210> 970  
 <211> 267  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> X = any amino acid or stop code

<400> 970  
 Gln Leu Ser Leu Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe  
 1 5 10 15  
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys Ser Thr Ile  
 20 25 30  
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val  
 35 40 45  
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val  
 50 55 60  
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly  
 65 70 75 80  
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe  
 85 90 95  
 Phe Met Glu Gly Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser  
 100 105 110  
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser Gln Leu Pro  
 115 120 125  
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu  
 130 135 140  
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu  
 145 150 155 160  
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr  
 165 170 175  
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys  
 180 185 190

Val Gln Thr Val Ala Ile Ile Gly Pro Ile Phe Gly Phe Leu Leu Gly  
 195 200  
 Ser Leu Cys Ala Lys Leu Tyr Val Asp Ile Gly Phe Val Asn Leu Asp  
 210 215 220  
 His Phe Xaa Val Ser Ala Gln Leu Gly Thr Arg Lys Gly Val Leu Val  
 225 230 235 240  
 Cys Leu Val Phe Cys Leu Leu Cys Gln Ser Ile Gly Arg Arg Leu Ser  
 245 250 255  
 Glu Glu His His Ser Asp Arg Glu Lys Gly  
 260 265 267

<210> 971  
 <211> 282  
 <212> Amino acid  
 <213> Homo sapiens

<400> 971  
 Gln Pro Ala Gly Arg Val Glu Ala Phe Cys Lys Phe His Met Trp Ala  
 1 5 10 15  
 Glu Gly Met Thr Ser Leu Met Lys Ala Ala Leu Asp Leu Thr Tyr Pro  
 20 25 30  
 Ile Thr Ser Met Phe Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser  
 35 40 45  
 Val Phe Lys Asp Gln Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala  
 50 55 60  
 Ile Thr Thr Asp Ile Thr Ala Ser Ala Met Arg Val His Thr Asp Gly  
 65 70 75 80  
 Ser Leu Trp Arg Tyr Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met  
 85 90 95  
 Pro Pro Leu Cys Asp Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly  
 100 105 110  
 Tyr Ile Asn Asn Leu Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys  
 115 120 125  
 Val Val Ile Ala Ile Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr  
 130 135 140  
 Asn Tyr Gly Asp Ala Leu Ser Gly Trp Trp Leu Leu Trp Lys Arg Trp  
 145 150 155 160  
 Asn Pro Leu Ala Thr Lys Val Lys Val Leu Asn Met Ala Glu Ile Gln  
 165 170 175  
 Thr Arg Leu Ala Tyr Val Cys Cys Val Arg Gln Leu Glu Val Val Lys  
 180 185 190  
 Ser Ser Asp Tyr Cys Glu Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser  
 195 200 205  
 Thr Leu Asp Phe Gly Lys Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln  
 210 215 220  
 His Gly Arg Thr Val Phe Asp Ile Trp Gly Arg Ser Gly Val Leu Glu  
 225 230 235 240  
 Lys Met Leu Arg Asp Gln Gln Gly Pro Ser Lys Lys Pro Ala Ser Ala  
 245 250 255  
 Val Leu Thr Cys Pro Asn Ala Ser Phe Thr Asp Leu Ala Glu Ile Val  
 260 265 270  
 Ser Arg Ile Glu Pro Ala Lys Pro Ala Met  
 275 280 282

<210> 972  
 <211> 167  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 972

```

Leu Trp Val Ile Met Phe Val Ser Tyr Leu Ile Leu Thr Leu Leu His
 1           5           10           15
Val Gln Thr Ala Val Leu Ala Arg Pro Gly Gly Glu Ser Ile Gly Cys
          20           25           30
Asp Asp Tyr Leu Gly Ser Asp Lys Val Val Asp Lys Cys Gly Val Cys
 35           40           45
Gly Gly Asp Asn Thr Gly Cys Gln Val Val Ser Gly Val Phe Lys His
 50           55           60
Ala Leu Thr Ser Leu Gly Tyr His Arg Val Val Glu Ile Pro Glu Gly
 65           70           75           80
Ala Thr Lys Ile Asn Ile Thr Glu Met Tyr Lys Ser Asn Asn Tyr Leu
          85           90           95
Ala Leu Arg Ser Arg Ser Gly Arg Ser Ile Ile Asn Gly Asn Trp Ala
 100          105          110
Ile Asp Arg Pro Gly Lys Tyr Glu Gly Gly Gly Thr Met Phe Thr Tyr
 115          120          125
Lys Arg Pro Asn Glu Ile Ser Ser Thr Ala Gly Glu Ser Phe Leu Ala
 130          135          140
Glu Gly Pro Thr Asn Glu Ile Leu Asp Val Tyr Val Ser Leu Asp Val
 145          150          155          160
Ser Gly Leu Phe Phe Gly Phe
          165          167

```

&lt;210&gt; 973

&lt;211&gt; 140

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 973

```

Ile Ser Gly Gly Thr Arg Ser Ala Gly Pro Leu Arg Arg Asn Tyr Asn
 1           5           10           15
Phe Ile Ala Ala Val Val Glu Lys Val Ala Pro Ser Val Val His Val
          20           25           30
Gln Leu Trp Gly Arg Asn Gln Gln Trp Ile Glu Val Val Leu Gln Asn
 35           40           45
Gly Ala Arg Tyr Glu Ala Val Val Lys Asp Ile Asp Leu Lys Leu Asp
 50           55           60
Leu Ala Val Ile Lys Ile Glu Ser Asn Ala Glu Leu Pro Val Leu Met
 65           70           75           80
Leu Gly Arg Ser Ser Asp Leu Arg Ala Gly Glu Phe Val Val Ala Leu
          85           90           95
Gly Ser Pro Phe Ser Leu Gln Asn Thr Ala Thr Ala Gly Ile Val Ser
 100          105          110
Thr Lys Gln Arg Gly Gly Lys Glu Leu Gly Met Lys Asp Ser Asp Met
 115          120          125
Asp Tyr Val Gln Ile Asp Ala Thr Ile Asn Tyr Gly
 130          135          140

```

&lt;210&gt; 974

&lt;211&gt; 286

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



<400> 974  
 Pro Arg Val Arg Glu Leu Lys Glu Ile Leu Asp Arg Lys Gly His Phe  
 1 5 10 15  
 Ser Glu Asn Glu Thr Arg Trp Ile Ile Gln Ser Leu Ala Ser Ala Ile  
 20 25 30  
 Ala Tyr Leu His Asn Asn Asp Ile Val His Arg Asp Leu Lys Leu Glu  
 35 40 45  
 Asn Ile Met Val Lys Ser Ser Leu Ile Asp Asp Asn Asn Glu Ile Asn  
 50 55 60  
 Leu Asn Ile Lys Val Thr Asp Phe Gly Leu Ala Val Lys Lys Gln Ser  
 65 70 75 80  
 Arg Ser Glu Ala Met Leu Gln Ala Thr Cys Gly Thr Pro Ile Tyr Met  
 85 90 95  
 Ala Pro Glu Val Ile Ser Ala His Asp Tyr Ser Gln Gln Cys Asp Ile  
 100 105 110  
 Trp Ser Ile Gly Val Val Met Tyr Met Leu Leu Arg Gly Glu Pro Pro  
 115 120 125  
 Phe Leu Ala Ser Ser Glu Glu Lys Leu Phe Glu Leu Ile Arg Lys Gly  
 130 135 140  
 Glu Leu His Phe Glu Asn Ala Val Trp Asn Ser Ile Ser Asp Cys Ala  
 145 150 155 160  
 Lys Ser Val Leu Lys Gln Leu Met Lys Val Asp Pro Ala His Arg Ile  
 165 170 175  
 Thr Ala Lys Glu Leu Leu Asp Asn Gln Trp Leu Thr Gly Asn Lys Leu  
 180 185 190  
 Ser Ser Val Arg Pro Thr Asn Val Leu Glu Met Met Lys Glu Trp Lys  
 195 200 205  
 Asn Asn Pro Glu Ser Val Glu Glu Asn Thr Thr Glu Glu Lys Asn Lys  
 210 215 220  
 Pro Ser Thr Glu Glu Lys Leu Lys Ser Tyr Gln Pro Trp Gly Asn Val  
 225 230 235 240  
 Pro Glu Thr Asn Tyr Thr Ser Asp Glu Glu Glu Glu Lys Gln Val Gly  
 245 250 255  
 Arg Ile Ile Ala Ala Phe Leu Pro Ser Val Lys Tyr Pro His His Thr  
 260 265 270  
 Trp Asn Ile Phe Leu Gln Ile Cys Leu Phe Val Val Ser Leu  
 275 280 285 286

<210> 975  
 <211> 155  
 <212> Amino acid  
 <213> Homo sapiens

<400> 975  
 Leu Ser Ile Ser Val Ser Asp Val Ser Leu Ser Asp Glu Gly Gln Tyr  
 1 5 10 15  
 Thr Cys Ser Leu Phe Thr Met Pro Val Lys Thr Ser Lys Ala Tyr Leu  
 20 25 30  
 Thr Val Leu Gly Val Pro Glu Lys Pro Gln Ile Ser Gly Phe Ser Ser  
 35 40 45  
 Pro Val Met Glu Gly Asp Leu Met Gln Leu Thr Cys Lys Thr Ser Gly  
 50 55 60  
 Ser Lys Pro Ala Ala Asp Ile Arg Trp Phe Lys Asn Asp Lys Glu Ile  
 65 70 75 80

```

Lys Asp Val Lys Tyr Leu Lys Glu Glu Asp Ala Asn Arg Lys Thr Phe
      85          90          95
Thr Val Ser Ser Thr Leu Asp Phe Arg Val Asp Arg Ser Asp Asp Gly
      100        105        110
Val Ala Val Ile Cys Arg Val Asp His Glu Ser Leu Asn Ala Thr Pro
      115        120        125
Gln Val Ala Met Gln Val Leu Glu Met His Tyr Thr Pro Ser Val Lys
      130        135        140
Ile Ile Pro Ser Thr Pro Phe Pro Gln Glu Gly
145          150          155

```

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<210> 976
<211> 137
<212> Amino acid
<213> Homo sapiens

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```

<400> 976
Tyr Asn Gln Lys Val Asp Leu Phe Ser Leu Gly Ile Ile Phe Phe Glu
1      5      10      15
Met Ser Tyr His Pro Met Val Thr Ala Ser Glu Arg Ile Phe Val Leu
      20      25      30
Asn Gln Leu Arg Asp Pro Thr Ser Pro Lys Phe Pro Glu Asp Phe Asp
      35      40      45
Asp Gly Glu His Ala Lys Gln Lys Ser Val Ile Ser Trp Leu Leu Asn
      50      55      60
His Asp Pro Ala Lys Arg Pro Thr Ala Thr Glu Leu Leu Lys Ser Glu
      65      70      75      80
Leu Leu Pro Pro Pro Gln Met Glu Glu Ser Glu Leu His Glu Val Leu
      85      90      95
His His Thr Leu Thr Asn Val Asp Gly Lys Ala Tyr Arg Thr Ile Asp
      100     105     110
Gly Pro Arg Ser Phe Arg Gln Arg Ile Ser Pro Ala Ile Ala Tyr Thr
      115     120     125
Tyr Asp Ser Asp Ile Leu Lys Gly Asn
130          135      137

```

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<210> 977
<211> 246
<212> Amino acid
<213> Homo sapiens

```

```

<400> 977
Asp Gln Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu
1      5      10      15
Asn Pro Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe
      20      25      30
Glu Thr Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp
      35      40      45
Trp Ser Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln
      50      55      60
Lys Arg Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg
      65      70      75      80
Thr Cys Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr
      85      90      95

```

Ala Ala Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala  
 100 105 110  
 Thr Lys Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser  
 115 120 125  
 Cys Lys Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp  
 130 135 140  
 Leu Pro Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr  
 145 150 155 160  
 Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp  
 165 170 175  
 Ala Ser Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg  
 180 185 190  
 Tyr Cys Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala  
 195 200 205  
 Gln His Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys  
 210 215 220  
 Gly Ala Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu  
 225 230 235 240  
 His Tyr Lys Val Asp Val  
 245 246

<210> 978  
 <211> 203  
 <212> Amino acid  
 <213> Homo sapiens

<400> 978  
 Glu Ser Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys  
 1 5 10 15  
 Glu Gly Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu  
 20 25 30  
 Gly Ile Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Glu Gly Glu  
 35 40 45  
 Asp Val Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser  
 50 55 60  
 Thr Cys Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu  
 65 70 75 80  
 Ser Ala Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu  
 85 90 95  
 Ala Glu Ala Gly Ala Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp  
 100 105 110  
 Ser Met Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser  
 115 120 125  
 Ser Ala Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly  
 130 135 140  
 Lys Asp Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr  
 145 150 155 160  
 Ser Ala Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp  
 165 170 175  
 Thr Thr Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val  
 180 185 190  
 Ser Gly Glu Val Pro Glu Cys Glu Val Ala His  
 195 200 203

<210> 979  
 <211> 94  
 <212> Amino acid  
 <213> Homo sapiens

<400> 979  
 Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala  
 1 5 10 15  
 Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala  
 20 25 30  
 Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu  
 35 40 45  
 Leu Leu Lys Met Gly Gln His Gly Asn Asn Val Gln Trp Arg Ala Leu  
 50 55 60  
 Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu  
 65 70 75 80  
 Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe  
 85 90 94

<210> 980  
 <211> 226  
 <212> Amino acid  
 <213> Homo sapiens

<400> 980  
 Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg  
 1 5 10 15  
 Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile  
 20 25 30  
 Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Gly  
 35 40 45  
 Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His  
 50 55 60  
 Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp  
 65 70 75 80  
 Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp  
 85 90 95  
 Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys  
 100 105 110  
 Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys  
 115 120 125  
 Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu  
 130 135 140  
 Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr  
 145 150 155 160  
 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys  
 165 170 175  
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu  
 180 185 190  
 Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly  
 195 200 205  
 Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys  
 210 215 220  
 Asp Phe  
 225 226

<210> 981  
 <211> 163

<212>Amino acid  
 <213> Homo sapiens

<400> 981  
 Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser  
 1 5 10 15  
 Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu  
 20 25 30  
 Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp  
 35 40 45  
 Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp  
 50 55 60  
 His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val  
 65 70 75 80  
 Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro  
 85 90 95  
 Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp  
 100 105 110  
 Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln  
 115 120 125  
 Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val  
 130 135 140  
 Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys  
 145 150 155 160  
 Pro Ser Val  
 163

<210> 982  
 <211> 327  
 <212>Amino acid  
 <213> Homo sapiens

<400> 982  
 Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp  
 1 5 10 15  
 Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe  
 20 25 30  
 Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro  
 35 40 45  
 Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser  
 50 55 60  
 Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Leu Glu  
 55 70 75 80  
 Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln  
 85 90 95  
 Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp  
 100 105 110  
 Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val  
 115 120 125  
 Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr  
 130 135 140  
 Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr  
 145 150 155 160  
 Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser  
 165 170 175

```

Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu
      180      185
Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu
      195      200      205
Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Thr
      210      215      220
Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu
      225      230      235      240
Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu
      245      250      255
Ala Tyr Lys Arg Lys Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser
      260      265      270
Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His
      275      280      285
Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr
      290      295      300
Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala
      305      310      315      320
Asp Pro Leu Arg Pro His Gly
      325      327

```

<210> 983  
 <211> 110  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 983
Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser
  1      5      10      15
Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr
      20      25      30
Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln
      35      40      45
Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu
      50      55      60
Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn
      65      70      75      80
Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys
      85      90      95
Thr Thr Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro
      100      105      110

```

<210> 984  
 <211> 80  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 984
Ala Pro Leu Ser Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly
  1      5      10      15
Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly
      20      25      30
Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr
      35      40      45

```

Val	Gln	Val	Thr	Ser	Ala	Leu	Ala	Pro	Ile	Pro	Gly	Ser	Gly	Gly	Trp
	50					55					60				
Gly	Gly	Gly	Arg	Arg	Gly	Ala	Gln	Leu	Thr	Ser	Gly	Trp	Thr	Leu	His
65					70					75				80	

<210> 985  
 <211> 235  
 <212>Amino acid  
 <213> Homo sapiens

Pro	His	Ile	Ile	Gly	Ala	Glu	Asp	Asp	Asp	Phe	Gly	Thr	Glu	His	Glu
1				5					10					15	
Gln	Ile	Asn	Gly	Gln	Cys	Ser	Cys	Phe	Gln	Ser	Ile	Glu	Leu	Leu	Lys
		20						25					30		
Ser	Arg	Pro	Ala	His	Leu	Ala	Val	Phe	Leu	Arg	His	Val	Val	Ser	Gln
		35				40					45				
Phe	Asp	Pro	Ala	Thr	Leu	Leu	Cys	Tyr	Leu	Tyr	Ser	Asp	Leu	Tyr	Lys
	50				55					60					
His	Thr	Asn	Ser	Lys	Glu	Thr	Arg	Arg	Ile	Phe	Leu	Glu	Phe	His	Gln
65					70				75					80	
Phe	Phe	Leu	Asp	Arg	Ser	Ala	His	Leu	Lys	Val	Ser	Val	Pro	Asp	Glu
			85					90					95		
Met	Ser	Ala	Asp	Leu	Glu	Lys	Arg	Arg	Pro	Glu	Leu	Ile	Pro	Glu	Asp
		100					105						110		
Leu	His	Arg	His	Tyr	Ile	Gln	Thr	Met	Gln	Glu	Arg	Val	His	Pro	Glu
		115				120						125			
Val	Gln	Arg	His	Leu	Glu	Asp	Phe	Arg	Gln	Lys	Arg	Ser	Met	Gly	Leu
	130					135					140				
Thr	Leu	Ala	Glu	Ser	Glu	Leu	Thr	Lys	Leu	Asp	Ala	Glu	Arg	Asp	Lys
145					150					155					160
Asp	Arg	Leu	Thr	Leu	Glu	Lys	Glu	Arg	Thr	Cys	Ala	Glu	Gln	Ile	Val
			165					170					175		
Ala	Lys	Ile	Glu	Glu	Val	Leu	Met	Thr	Ala	Gln	Ala	Val	Glu	Glu	Asp
		180					185						190		
Lys	Ser	Ser	Thr	Met	Gln	Tyr	Val	Ile	Leu	Met	Tyr	Met	Lys	His	Leu
		195				200						205			
Gly	Val	Lys	Val	Lys	Glu	Pro	Arg	Asn	Leu	Glu	His	Lys	Arg	Gly	Arg
	210					215					220				
Ile	Gly	Phe	Leu	Pro	Lys	Ile	Lys	Gln	Ser	Met					
225					230					235					

<210> 986  
 <211> 140  
 <212>Amino acid  
 <213> Homo sapiens

Ser	Pro	Gly	Thr	Gly	Arg	Gly	Pro	Gly	Pro	Thr	Ser	Phe	Val	Cys	Leu
1				5				10						15	
Pro	Thr	Pro	Gln	Cys	Pro	Phe	Ile	Asp	Asp	Phe	Ile	Leu	Ala	Leu	His
			20					25					30		

```

Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile
    35                                40
Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro
    50                                55
Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr
    65                                70
Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val
    85                                90
Val Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro
    100                               105
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser
    115                               120
Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala
    130                               135                               140

```

<210> 987  
 <211> 242  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 987
His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu
    1                                5                                10                                15
Phe Leu Thr Glu Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln
    20                                25                                30
Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly
    35                                40                                45
Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys
    50                                55                                60
Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser
    65                                70                                75                                80
Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala
    85                                90                                95
Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu
    100                               105                               110
Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys
    115                               120                               125
His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val
    130                               135                               140
Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln
    145                               150                               155                               160
Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys
    165                               170                               175
Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala
    180                               185                               190
Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser
    195                               200                               205
Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg
    210                               215                               220
Leu His Gly Val Glu Leu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys
    225                               230                               235                               240
Arg Ala
    242

```

<210> 988  
 <211> 154  
 <212> Amino acid  
 <213> Homo sapiens



<400> 988  
 Cys Cys Arg Trp Ile Asp Cys Phe Ala Leu Tyr Asp Gln Gln Glu Glu  
 1 5 10 15  
 Leu Val Arg His Ile Glu Lys Val His Ile Asp Gln Arg Lys Gly Glu  
 20 25 30  
 Asp Phe Thr Cys Phe Trp Ala Gly Cys Pro Arg Arg Tyr Lys Pro Phe  
 35 40 45  
 Asn Ala Arg Tyr Lys Leu Leu Ile His Met Arg Val His Ser Gly Glu  
 50 55 60  
 Lys Pro Asn Lys Cys Thr Phe Glu Gly Cys Glu Lys Ala Phe Ser Arg  
 65 70 75 80  
 Leu Glu Asn Leu Lys Ile His Leu Arg Ser His Thr Gly Glu Lys Pro  
 85 90 95  
 Tyr Leu Cys Gln His Pro Gly Cys Gln Lys Ala Phe Ser Asn Ser Ser  
 100 105 110  
 Asp Arg Ala Lys His Gln Arg Thr His Leu Asp Thr Lys Pro Tyr Ala  
 115 120 125  
 Cys Gln Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu  
 130 135 140  
 Arg Lys His Val Lys Ala His Ser Ser Lys  
 145 150 154

<210> 989  
 <211> 65  
 <212> Amino acid  
 <213> Homo sapiens

<400> 989  
 Leu Pro Leu Leu Trp Thr Leu Ser Asp Phe Gly Gly Thr Met Asp Gln  
 1 5 10 15  
 Ser Gly Met Glu Ile Pro Val Thr Leu Ile Ile Lys Ala Pro Asn Gln  
 20 25 30  
 Lys Tyr Ser Asp Gln Thr Ile Ser Cys Phe Leu Asn Trp Thr Val Gly  
 35 40 45  
 Lys Leu Lys Thr His Leu Ser Asn Val Tyr Pro Ser Lys Pro Val Ser  
 50 55 60  
 Val  
 65

<210> 990  
 <211> 297  
 <212> Amino acid  
 <213> Homo sapiens

<400> 990  
 Ala Gly Thr Arg Met Cys Val Val Ala Ala Ala Glu Glu Leu Val Cys  
 1 5 10 15  
 Gly Ala Arg Gly Leu Trp Met Arg Arg Thr Arg Arg Pro Arg Phe Val  
 20 25 30

```

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn
      35      40
Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr
      50      55      60
Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr
      65      70      75      80
His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu
      85      90      95
Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val
      100      105      110
Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp
      115      120      125
His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp
      130      135      140
Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys
      145      150      155      160
Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe
      165      170      175
Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val
      180      185      190
Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val
      195      200      205
Gly Met His Ser Leu Gly Glu Glu Val Arg Leu His Leu Asn Ala Glu
      210      215      220
Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp
      225      230      235      240
Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu
      245      250      255
Tyr Leu Gly Lys Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala
      260      265      270
Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val
      275      280      285
Asp Pro Gly Glu Lys Cys Tyr Ile Ala
      290      295      297

```

<210> 991  
 <211> 207  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 991
Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp
      1      5      10      15
Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly
      20      25      30
Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala
      35      40      45
Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp
      50      55      60
Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg
      65      70      75      80
Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg
      85      90      95
Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala
      100      105      110
Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr
      115      120      125
Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys
      130      135      140

```

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val  
 145 150 155 160  
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser  
 165 170 175  
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg  
 180 185 190  
 Gly Phe Gln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu  
 195 200 205 207

<210> 992  
 <211> 184  
 <212> Amino acid  
 <213> Homo sapiens

<400> 992  
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro  
 1 5 10 15  
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val  
 20 25 30  
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp  
 35 40 45  
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val  
 50 55 60  
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp  
 65 70 75 80  
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala  
 85 90 95  
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg  
 100 105 110  
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu  
 115 120 125  
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser  
 130 135 140  
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val  
 145 150 155 160  
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly  
 165 170 175  
 Lys Leu Pro Asp Pro Val Lys Glu  
 180 184

<210> 993  
 <211> 144  
 <212> Amino acid  
 <213> Homo sapiens

<400> 993  
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly  
 1 5 10 15  
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro  
 20 25 30  
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly  
 35 40 45  
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser  
 50 55 60

```

Pro Lys Val Ile Ser Thr Pro Pro Pro Pro Ile Phe Pro Ile Ser Lys
65                               70                               75                               80
Glu Val Gly Pro Ile Pro Ile Lys His Phe Pro Lys His Val Ala Asn
                               85                               90                               95
Leu His Ala Ser Arg Gly Phe Thr Glu Lys Phe Glu Thr Leu Lys Lys
100                               105                               110
Phe Tyr Gln Glu Gly Gln Ser Cys Thr Val Asp Leu Gly Ile Thr Ala
115                               120                               125
Asn Ser Ser Asn His Pro Asp Asn Arg His Arg Asn Arg Ser Leu Ile
130                               135                               140                               144

```

```

<210> 994
<211> 147
<212> Amino acid
<213> Homo sapiens

```

```

<400> 994
Ser Phe Pro Asp Arg Thr Ala Ser Leu Val Leu Leu Ser Val Pro Val
1                               5                               10                               15
Gly Gln Ala Gly Met Gln Gln Arg Gly Leu Ala Ile Val Ala Leu Ala
20                               25                               30
Val Cys Ala Ala Leu His Ala Ser Pro Ala Ile Leu Pro Ile Ala Ser
35                               40                               45
Ser Cys Cys Thr Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu
50                               55                               60
Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu
65                               70                               75                               80
Ala Ala Val Ile Leu His Val Lys Arg Arg Arg Ile Cys Val Ser Pro
85                               90                               95
His Asn His Thr Val Lys Gln Trp Met Lys Val Gln Ala Ala Lys Lys
100                               105                               110
Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys His His Gly Lys Arg
115                               120                               125
Asn Ser Asn Arg Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys
130                               135                               140
Thr Pro Tyr
145                               147

```

```

<210> 995
<211> 245
<212> Amino acid
<213> Homo sapiens

```

```

<400> 995
Phe Glu Gln Pro Gly Asn Pro Gly Asp Pro Arg Val Arg Thr Pro Pro
1                               5                               10                               15
Pro Trp Gly Pro His Phe Phe Ala Leu Ile Pro Ser Ser Pro Lys Glu
20                               25                               30
Val Pro Ala Thr Pro Ser Ser Arg Arg Asp Pro Ile Ala Pro Thr Ala
35                               40                               45
Thr Leu Leu Ser Lys Lys Thr Pro Ala Thr Leu Ala Pro Lys Glu Ala
50                               55                               60

```

```

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala
65          70          75          80
Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala
85          90          95
Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser
100         105         110
Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys
115         120         125
Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly
130         135         140
Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr
145         150         155
Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys
165         170         175
Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys
180         185         190
Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu
195         200         205
Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys
210         215         220
Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys
225         230         235         240
Asn Gly Ser Lys Gly
245

```

```

<210> 996
<211> 25
<212>Amino acid
<213> Homo sapiens

```

```

<400> 996
Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro
1          5          10          15
Val Ile Pro Val Leu Trp Glu Ala Glu
20         25

```

```

<210> 997
<211> 56
<212>Amino acid
<213> Homo sapiens

```

```

<400> 997
Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
1          5          10          15
Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
20         25         30
Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu
35         40         45
Phe Leu Lys Pro Leu Leu Leu Leu
50         55         56

```

```

<210> 998
<211> 198

```

<212>Amino acid  
<213> Homo sapiens

<400> 998  
 Trp Met Arg Ala Pro Met Leu Gln Lys Gln Gln Ala Pro Arg Met Asp  
 1 5 10 15  
 Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn  
 20 25 30  
 Asn Gln Glu Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu  
 35 40 45  
 Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys  
 50 55 60  
 Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile  
 65 70 75 80  
 Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu  
 85 90 95  
 Leu Leu Asn Ala Glu Leu Glu Glu Lys Met Met Gln Glu Ala Glu Lys  
 100 105 110  
 Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met  
 115 120 125  
 Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr  
 130 135 140  
 Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu  
 145 150 155 160  
 Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys  
 165 170 175  
 Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu  
 180 185 190  
 Thr Leu Lys Glu Arg Cys  
 195 198

<210> 999  
 <211> 79  
 <212>Amino acid  
 <213> Homo sapiens

<400> 999  
 Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu  
 1 5 10 15  
 Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu  
 20 25 30  
 Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser  
 35 40 45  
 Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu  
 50 55 60  
 Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val  
 65 70 75 79

<210> 1000  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1000  
 Val Thr Thr Thr Thr His Ser Val Gly Arg Gly His Glu Leu Gln Leu  
 1 5 10 15  
 Leu Asn Glu Glu Leu Arg Asn Ile Glu Leu Glu Cys Gln Asn Ile Met  
 20 25 30  
 Gln Ala His Arg Leu Gln Lys Val Thr Asp Gln Tyr Gly Asp Ile Trp  
 35 40 45  
 Thr Leu His Asp Gly Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Met  
 50 55 60  
 Gln Arg Gly Lys Leu Asp Asp Ile Met Glu His Pro Glu Lys Ser Asp  
 65 70 75 80  
 Lys Asp Ser Ser Ser Ala Tyr Asn Thr Ala Glu Ser Cys Arg Ser Thr  
 85 90 95  
 Pro Leu Thr Val Asp Arg Ser Pro Asp Ser Ser Leu Pro Arg Val Ile  
 100 105 110  
 Asn Leu Thr Asn Lys Lys Asn Leu Arg Ser Thr Met Ala Ala Thr Gln  
 115 120 125  
 Ser Ser Ser Gly Gln Ser Ser Lys Glu Ser Thr Ser Thr Lys Ala Lys  
 130 135 140  
 Thr Thr Glu Gln Gly Cys Ser Ala Glu Ser Lys Glu Lys Val Leu Glu  
 145 150 155 160  
 Gly Ser Lys Leu Pro Asp Gln Glu Lys Ala Val Ser Glu His Ile Pro  
 165 170 175  
 Tyr Leu Ser Pro Tyr His Ser Ser Ser Tyr Arg Tyr Ala Asn Ile Pro  
 180 185 190  
 Ala His Ala Arg His Tyr Gln Ser Tyr Met Gln Leu Ile Gln  
 195 200 205 206

<210> 1001  
 <211> 138  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1001  
 Val Trp Gly Cys Leu Ala Thr Val Ser Thr His Lys Lys Ile Gln Gly  
 1 5 10 15  
 Leu Pro Phe Gly Asn Cys Leu Pro Val Ser Asp Gly Pro Phe Asn Asn  
 20 25 30  
 Ser Thr Gly Ile Pro Phe Phe Tyr Met Thr Ala Lys Asp Pro Val Val  
 35 40 45  
 Ala Asp Leu Met Lys Asn Pro Met Ala Ser Leu Met Leu Pro Glu Ser  
 50 55 60  
 Glu Gly Glu Phe Cys Arg Lys Asn Ile Val Asp Pro Glu Asp Pro Arg  
 65 70 75 80  
 Cys Val Gln Leu Thr Leu Thr Gly Gln Met Ile Ala Val Ser Pro Glu  
 85 90 95  
 Glu Val Glu Phe Ala Lys Gln Ala Met Phe Ser Arg His Pro Gly Met  
 100 105 110  
 Arg Lys Trp Pro Arg Gln Tyr Glu Trp Phe Phe Met Lys Met Arg Ile  
 115 120 125  
 Glu His Ile, Trp Leu Gln Lys Trp Tyr Gly  
 130 135 138

<210> 1002  
 <211> 133

<212>Amino acid  
 <213> Homo sapiens

<400> 1002

```

Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro
 1          5          10          15
Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Gln Lys Leu
 20          25          30
Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp
 35          40          45
Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu
 50          55          60
Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val
 65          70          75          80
Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile
 85          90          95
Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn
100          105          110
Leu Ala Gly Asn Asn Leu Ile Ala Met Glu Gln Ile Asn Ser Cys Thr
115          120          125
Ala Leu Gln His Leu
130          133

```

<210> 1003  
 <211> 276  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1003

```

Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr
 1          5          10          15
Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr
 20          25          30
Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe
 35          40          45
Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His
 50          55          60
Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala
 65          70          75          80
Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln
 85          90          95
Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His
100          105          110
Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile
115          120          125
Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp
130          135          140
Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu
145          150          155          160
Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val
165          170          175
Leu Ser Gln Glu Gly Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala
180          185          190
Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro
195          200          205

```



Val Leu Lys Thr Ala Leu Pro Glu Gly Leu Gly Pro Tyr Cys Ala Glu  
 210 215 220  
 Thr His Arg Arg His Thr Leu Phe Cys Gly Thr Leu Ile Leu His Ala  
 225 230 235 240  
 Arg Ala Tyr Val Gly Pro His Val Leu Ala Val Thr Arg Thr Gly  
 245 250 255  
 Met Ser Arg Glu Ala Gly Leu Glu Arg Asp Pro Gly Ser Ala Pro Leu  
 260 265 270  
 Lys Arg Trp Ser  
 275 276

<210> 1004  
 <211> 222  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1004  
 Phe Val Gly Gly Gly Leu His Leu His Leu Cys Leu Leu Leu Cys Phe  
 1 5 10 15  
 Met Leu Pro Glu Asp Ala Ala Met Ala Val Leu Thr Ala Ser Asn His  
 20 25 30  
 Val Ser Asn Val Thr Val Asn Tyr Asn Ile Thr Val Glu Arg Met Asn  
 35 40 45  
 Arg Met Gln Gly Leu Arg Val Ser Thr Val Pro Ala Val Leu Ser Pro  
 50 55 60  
 Asn Ala Thr Leu Ala Leu Thr Ala Gly Val Leu Val Asp Ser Ala Val  
 65 70 75 80  
 Glu Val Ala Phe Leu Trp Thr Phe Gly Asp Gly Glu Gln Ala Leu His  
 85 90 95  
 Gln Phe Gln Pro Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser  
 100 105 110  
 Val Ala Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala  
 115 120 125  
 Pro Gly Glu Tyr Val Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn  
 130 135 140  
 Arg Thr Gln Gln Val Leu Ile Arg Ser Gly Arg Val Pro Ile Val Ser  
 145 150 155 160  
 Leu Glu Cys Val Ser Cys Lys Ala Gln Ala Val Tyr Glu Val Ser Arg  
 165 170 175  
 Ser Ser Tyr Val Tyr Leu Glu Gly Arg Cys Leu Asn Cys Ser Ser Gly  
 180 185 190  
 Ser Lys Arg Gly Arg Trp Ala Ala Arg Thr Phe Ser Asn Lys Thr Leu  
 195 200 205  
 Val Leu Asp Glu Thr Thr Thr Ser Thr Gly Ser Ala Ser Met  
 210 215 220 222

<210> 1005  
 <211> 363  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1005  
 Pro Glu Phe Leu Gly Arg Leu Phe Arg Gly Lys Ala Ala Thr Leu His  
 1 5 10 15

```

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln
      20      25
Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp
      35      40      45
Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn
      50      55      60
Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn
      65      70      75      80
His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr
      85      90      95
Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn
      100      105      110
Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys
      115      120      125
Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn
      130      135      140
Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro
      145      150      155      160
Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro
      165      170      175
Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu
      180      185      190
Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp
      195      200      205
Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu
      210      215      220
Thr Asp Lys Glu Lys Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys
      225      230      235      240
Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met
      245      250      255
His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile
      260      265      270
Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro
      275      280      285
Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val
      290      295      300
Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Lys Arg Arg Ala Pro
      305      310      315      320
Ala Pro Pro Pro Pro Gln Pro Pro Pro Ser Pro Leu Ile Pro Asn
      325      330      335
Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys
      340      345      350
Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe
      355      360      363

```

&lt;210&gt; 1006

&lt;211&gt; 95

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(95)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1006

```

Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe
  1      5      10      15
Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

```

```

      20              25              30
Ala Pro Pro Leu Pro Ala Pro Phe Phe Tyr Phe Leu Phe Leu Val
      35              40              45
Glu Leu Gly Phe His His Ile Gly Xaa Ala Gly Leu Glu Leu Thr Ser
      50              55              60
Thr Asp Leu Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Met
      65              70              75              80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu
      85              90              95

```

```

<210> 1007
<211> 151
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 1007
Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu
1              5              10              15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr
      20              25              30
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu
      35              40              45
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu
      50              55              60
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg
      65              70              75              80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Leu Tyr Pro Gln Thr
      85              90              95
Gln Val Leu Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn
      100              105              110
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu
      115              120              125
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu
      130              135              140
Gly Val Thr Gln Phe Ser Pro
145              150 151

```

```

<210> 1008
<211> 64
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(64)
<223> X = any amino acid or stop code

```

```

      <400> 1008
Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu
1              5              10              15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr
      20              25              30
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile
      35              40              45

```

Pro Ser Ser Trp Thr Gly Arg Ile Asn Thr Val Lys Met Thr Ile Leu  
 50 55 60 64

<210> 1009  
 <211> 60  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1009  
 Val Pro His Pro Leu Gln Ala Ile His Glu Gln Met Asn Cys Lys Glu  
 1 5 10 15  
 Tyr Gln Glu Asp Leu Ala Leu Arg Ala Gln Asn Asp Ala Ala Ala Arg  
 20 25 30  
 Arg Pro Ser Glu Met Phe Lys Val Arg Leu Ala Gln Gly Arg Gly Leu  
 35 40 45  
 Ala Ser Leu Ser Ser Gly Ile Gln Ser Gly Val Gly  
 50 55 60

<210> 1010  
 <211> 44  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1010  
 Arg Trp Asn Ser Leu Thr Cys Val Val Leu Thr Phe Leu Gly His Arg  
 1 5 10 15  
 Leu Leu Lys Arg Phe Leu Val Pro Lys Leu Arg Arg Phe Leu Lys Pro  
 20 25 30  
 Gln Gly His Pro Arg Leu Leu Leu Trp Phe Lys Arg  
 35 40 44

<210> 1011  
 <211> 219  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1011  
 Tyr Gly Glu Phe Val Thr Tyr Gln Gly Val Ala Val Thr Arg Ser Arg  
 1 5 10 15  
 Lys Glu Gly Ile Ala His Asn Tyr Lys Asn Glu Thr Glu Trp Arg Ala  
 20 25 30  
 Asn Ile Asp Thr Val Met Ala Trp Phe Thr Glu Glu Asp Leu Asp Leu  
 35 40 45  
 Val Thr Leu Tyr Phe Gly Glu Pro Asp Ser Thr Gly His Arg Tyr Gly  
 50 55 60  
 Pro Glu Ser Pro Glu Arg Arg Glu Met Val Arg Gln Val Asp Arg Thr  
 65 70 75 80

```

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg
      85          90
Leu Asn Leu Ile Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys
      100        105
Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe
      115        120        125
Arg Asp Ile Glu Phe Glu Leu Leu Asp Tyr Gly Pro Asn Gly Met Leu
      130        135        140
Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp
      145        150        155        160
Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala
      165        170        175
Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser
      180        185        190
Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro
      195        200        205
Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser
      210        215        219

```

<210> 1012  
 <211> 89  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1012
Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly
  1          5          10          15
Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly
      20          25          30
Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu
      35          40          45
Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly
      50          55          60
Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys
      65          70          75          80
Pro Ser Ser Ser Leu Glu Thr Phe Phe
      85          89

```

<210> 1013  
 <211> 82  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1013
Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln
  1          5          10          15
Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Gly Trp Lys Leu Ser
      20          25          30
His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe
      35          40          45
Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu
      50          55          60
Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser
      65          70          75          80

```

Trp Asp  
82

<210> 1014  
<211> 107  
<212> Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(107)  
<223> X = any amino acid or stop code

<400> 1014  
Tyr Cys Phe Cys Phe Asp Leu Leu His Xaa Cys Ile His Arg Asp Val  
1 5 10 15  
Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys  
20 25 30  
Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr  
35 40 45  
Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Pro Val Gly  
50 55 60  
Asp Thr Gln Tyr Gly Pro Pro Val Asp Val Trp Ala Ile Gly Cys Val  
65 70 75 80  
Ser Ala Glu Leu Leu Ser Gly Lys Cys Leu Trp Trp Pro Gly Lys Ser  
85 90 95  
Asp Met Leu Asp Gln Leu Tyr Leu Ile Arg Lys  
100 105 107

<210> 1015  
<211> 70  
<212> Amino acid  
<213> Homo sapiens

<400> 1015  
Arg Gly Trp Ala Leu Asp Trp Ile Gly Ala Asp Leu Ser Leu His Leu  
1 5 10 15  
Gln Glu Glu Val Glu Thr Glu Val Ala Trp Glu Glu Cys Gly His Val  
20 25 30  
Leu Leu Ser Leu Cys Tyr Ser Ser Gln Gly Gly Leu Leu Val Gly  
35 40 45  
Val Leu Arg Cys Ala His Leu Ala Pro Met Asp Ala Asn Gly Tyr Ser  
50 55 60  
Asp Pro Phe Val Arg Leu  
65 70

<210> 1016  
<211> 142  
<212> Amino acid  
<213> Homo sapiens

<400> 1016  
 Gly Gly Ile Leu Ala Met Glu Tyr Ala Pro Gly Gly Thr Leu Ala Glu  
 1 5 10 15  
 Phe Ile Gln Lys Arg Cys Asn Ser Leu Leu Glu Glu Thr Ile Leu  
 20 25 30  
 His Phe Phe Val Gln Ile Leu Leu Ala Leu His His Val His Thr His  
 35 40 45  
 Leu Ile Leu His Arg Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Lys  
 50 55 60  
 His Arg Met Val Val Lys Ile Gly Asp Phe Gly Ile Ser Lys Ile Leu  
 65 70 75 80  
 Ser Ser Lys Ser Lys Ala Tyr Thr Val Val Gly Thr Pro Cys Tyr Ile  
 85 90 95  
 Ser Pro Glu Leu Cys Glu Gly Lys Pro Tyr Asn Gln Lys Ser Asp Ile  
 100 105 110  
 Trp Ala Leu Gly Cys Val Leu Tyr Glu Leu Ala Ser Leu Lys Arg Ala  
 115 120 125  
 Phe Glu Ala Ala Asn Leu Pro Ala Leu Val Leu Lys Ile Met  
 130 135 140 142

<210> 1017  
 <211> 87  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1017  
 Val Gln Cys Gly Gly Ile His Gln Val Ser Gly Ala Val Val Val Ser  
 1 5 10 15  
 Gly Leu Leu Gln Gly Met Met Gly Leu Leu Gly Ser Pro Gly His Val  
 20 25 30  
 Phe Pro His Cys Gly Pro Leu Val Leu Ala Pro Ser Leu Val Val Ala  
 35 40 45  
 Gly Leu Ser Ala His Arg Glu Val Ala Gln Phe Cys Phe Thr His Trp  
 50 55 60  
 Gly Leu Ala Leu Leu Tyr Val Ser Pro Glu Arg Arg Gly Met Val Pro  
 65 70 75 80  
 Ser Gly Gly Val Trp Gly Asp  
 85 87

<210> 1018  
 <211> 160  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1018  
 Pro Arg Met Thr Gly Ser Thr His Ala Ser Ala Pro Ser Tyr Gly Gly  
 1 5 10 15  
 Ser Cys Arg Asn Asn Leu Phe Tyr Arg Glu Glu Thr Tyr Thr Pro Lys  
 20 25 30  
 Ala Glu Thr Asp Glu Met Asn Glu Val Glu Thr Ala Pro Ile Pro Glu  
 35 40 45  
 Glu Asn His Val Trp Leu Gln Pro Arg Val Met Arg Pro Thr Lys Pro

```

50          55          60
Lys Lys Thr Ser Ala Val Asn Tyr Met Thr Gln Val Val Arg Cys Asp
65          70          75          80
Thr Lys Met Lys Asp Arg Cys Ile Gly Ser Thr Cys Asn Arg Tyr Gln
85          90          95
Cys Pro Ala Gly Cys Leu Asn His Lys Ala Lys Ile Phe Gly Ser Leu
100         105         110
Phe Tyr Glu Ser Phe Ala Ser Ile Cys Arg Ala Ala Ile His Tyr Gly
115         120         125
Ile Leu Asp Asp Lys Gly Gly Leu Val Asp Ile Thr Arg Asn Gly Lys
130         135         140
Val Pro Phe Phe Val Lys Ser Glu Arg His Gly Val Gln Ser Leu Arg
145         150         155         160

```

<210> 1019  
 <211> 174  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1019
Val Pro Gln Asn Ile Ile Cys Ala Phe Phe Cys Val Pro Cys Arg Phe
1          5          10          15
Ala Ser Thr Ile Pro Phe Trp Gly Leu Thr Leu His Leu Gln His Leu
20         25         30
Gly Asn Asn Val Phe Leu Leu Gln Thr Leu Phe Gly Ala Val Thr Leu
35         40         45
Leu Ala Asn Cys Val Ala Pro Trp Ala Leu Asn His Met Ser Arg Arg
50         55         60
Leu Ser Gln Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala
65         70         75         80
Ile Ile Phe Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala
85         90         95
Thr Leu Gly Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala
100        105        110
Gln Glu Asn Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly
115        120        125
Ile Thr Gly Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val
130        135        140
Met Ile Leu Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly
145        150        155        160
Val Phe Ala Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
165        170        174

```

<210> 1020  
 <211> 225  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1020
Val Leu Val Ser Arg Asp His Met Lys Ser Ala Gln Gln Phe Gln
1          5          10          15
Leu Val Gly Gly Ser Ala Ser Glu Cys Asp Thr Ile Pro Gly Arg Gln

```



```

      20      25      30
Cys Met Ala Ser Cys Phe Phe Leu Leu Lys Gln Phe Asp Asp Val Leu
      35      40      45
Ile Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe
      50      55      60
Asn Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu
      65      70      75      80
Gly Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp
      85      90      95
Tyr Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys
      100      105      110
Pro Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu
      115      120      125
Ser Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly
      130      135      140
Gln Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp
      145      150      155      160
Pro Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile
      165      170      175
Phe Gln Met Ile Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu
      180      185      190
Val Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met
      195      200      205
Ile Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu
      210      215      220
Lys
225

```

```

<210> 1021
<211> 118
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1021
Leu Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln
 1      5      10      15
Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp
      20      25      30
Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys
      35      40      45
Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val
      50      55      60
Arg Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu
      65      70      75      80
His Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu
      85      90      95
Arg Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg
      100      105      110
Leu Arg Trp Trp Leu Met Pro
      115      118

```

```

<210> 1022
<211> 178
<212>Amino acid
<213> Homo sapiens

```

<400> 1022  
 Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser  
 1 5 10 15  
 Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr  
 20 25 30  
 Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His  
 35 40 45  
 Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His  
 50 55 60  
 Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys  
 65 70 75 80  
 Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly  
 85 90 95  
 Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile  
 100 105 110  
 Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn  
 115 120 125  
 Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser  
 130 135 140  
 Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala  
 145 150 155 160  
 Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly  
 165 170 175  
 Lys Thr  
 178

<210> 1023  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1023  
 Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu  
 1 5 10 15  
 Ala Ser Ala Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val  
 20 25 30  
 Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu  
 35 40 45  
 Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln  
 50 55 60  
 Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu  
 65 70 75 80  
 Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln  
 85 90 95  
 Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu  
 100 105 110  
 Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala  
 115 120 125  
 Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala  
 130 135 140  
 Lys Lys  
 145 146

<210> 1024  
 <211> 39  
 <212>Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1024

```

Ala Met Glu Ile Val His Glu Pro Arg Asp Leu Glu Arg Tyr Met Arg
 1             5             10             15
Glu Ala Val Lys Val Ser Asn Asp Ser Pro Val Leu Leu Asp Arg Phe
          20             25             30
Leu Asn Asp Ala Ile Glu Cys
          35             39

```

&lt;210&gt; 1025

&lt;211&gt; 53

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1025

```

Met Leu Ser Pro Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser
 1             5             10             15
Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Val Ala Leu
          20             25             30
Tyr Phe Gly Gln Met Met Leu Glu Gly Tyr Ile Phe Leu Tyr Met Gly
          35             40             45
Arg Glu Gly Phe Lys
          50             53

```

&lt;210&gt; 1026

&lt;211&gt; 365

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1026

```

Pro Arg Val Arg Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln
 1             5             10             15
Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val
          20             25             30
Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser
          35             40             45
Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu
          50             55             60
Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp Thr Leu Ser
          65             70             75             80
Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val
          85             90             95
Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile
          100             105             110
Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn
          115             120             125
Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg
          130             135             140
Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly

```

```

145              150              155              160
Ala Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe
              165              170              175
Val Val Leu Pro Thr Gly Asp Val Trp Ser Arg Pro Asp Gly Ser Tyr
              180              185              190
Leu Asn Lys Leu Leu Ile Thr Arg Ala Arg Gln Asp Asp Ala Gly Met
              195              200              205
Tyr Ile Cys Leu Gly Ala Asn Thr Met Gly Tyr Ser Phe Arg Ser Ala
              210              215              220
Phe Leu Thr Val Leu Pro Asp Pro Lys Pro Pro Gly Pro Pro Val Ala
225              230              235              240
Ser Ser Ser Ser Ala Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile
              245              250              255
Pro Ala Gly Ala Val Phe Ile Leu Gly Thr Leu Leu Leu Trp Leu Cys
              260              265              270
Gln Ala Gln Lys Lys Pro Cys Thr Pro Ala Pro Ala Pro Pro Leu Pro
275              280              285
Gly His Arg Pro Pro Gly Thr Ala Arg Asp Arg Ser Gly Asp Lys Asp
290              295              300
Leu Pro Ser Leu Ala Ala Leu Ser Ala Gly Pro Gly Val Gly Leu Cys
305              310              315              320
Glu Glu His Gly Ser Pro Ala Ala Pro Gln His Leu Leu Gly Pro Gly
              325              330              335
Pro Val Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr Thr Asp Ile Pro
              340              345              350
His His Thr His Thr His Thr Pro His Pro Pro Ala Asn
              355              360              365

```

&lt;210&gt; 1027

&lt;211&gt; 30

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1027

```

Asn Phe His Phe Thr Gly Lys Cys Leu Phe Met Ser Gly Leu Ser Glu
1              5              10              15
Val Gln Leu Thr His Met Asp Asp His Thr Leu Pro Gly Tyr
              20              25              30

```

&lt;210&gt; 1028

&lt;211&gt; 104

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1028

```

Ser Pro Arg Lys Arg Lys Thr Arg His Ser Thr Asn Pro Pro Leu Glu
1              5              10              15
Cys His Val Gly Trp Val Met Asp Ser Arg Asp His Gly Pro Gly Thr
              20              25              30
Ser Ser Val Ser Thr Ser Asn Ala Ser Pro Ser Glu Gly Ala Pro Leu
              35              40              45
Ala Gly Ser Tyr Gly Cys Thr Pro His Ser Phe Pro Lys Phe Gln His
              50              55              60
Pro Ser His Glu Leu Leu Lys Glu Asn Gly Phe Thr Gln Gln Val Tyr

```

```

      65              70              75              80
His Lys Tyr Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile
      85              90              95
Gly Gln Ser Gln Glu Met Asn Thr
      100             104

```

<210> 1029  
 <211> 119  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1029
Pro Gly Ser Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln
  1              5              10              15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro
      20              25              30
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp
      35              40              45
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His
      50              55              60
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu
      65              70              75              80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr
      85              90              95
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys
      100             105             110
Gly Leu Tyr His Lys Met Asn
      115             119

```

<210> 1030  
 <211> 171  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)... (171)  
 <223> X = any amino acid or stop code

```

      <400> 1030
Pro Asp His Arg His Gly Ala Leu Trp Trp Tyr Ser Cys Gly Val
  1              5              10              15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val
      20              25              30
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu
      35              40              45
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro
      50              55              60
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys
      65              70              75              80
Leu Ser Ala Ala Pro Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu
      85              90              95
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys
      100             105             110

```

```

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser
      115              120              125
Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala
      130              135              140
Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys
      145              150              155              160
Leu Asn His Lys Gly Leu Ser Arg Ala His Phe
              165              170 171

```

```

<210> 1031
<211> 198
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1031
Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly
  1              5              10              15
Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr
      20              25              30
Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala
      35              40              45
Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe
      50              55              60
Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu
      65              70              75              80
Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile
      85              90              95
Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg
      100              105              110
Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala
      115              120              125
Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile
      130              135              140
Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile
      145              150              155              160
Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala
      165              170              175
Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln
      180              185              190
Leu Arg Thr Leu Asn Ala
      195              198

```

```

<210> 1032
<211> 138
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 1032
Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

```

```

1           5           10           15
Met Phe Ser Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu
      20           25           30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu
      35           40           45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln
      50           55           60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val
      65           70           75           80
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys
      85           90           95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro
      100          105          110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp
      115          120          125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *
      130          135          137

```

<210> 1033  
 <211> 141  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 1033
Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala
1           5           10           15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val
      20           25           30
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro
      35           40           45
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys
      50           55           60
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met
      65           70           75           80
Met Pro Gly His Gly His Gly His Met Glu His Ser Asn Trp Arg Met
      85           90           95
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr
      100          105          110
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp
      115          120          125
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile
      130          135          140 141

```

<210> 1034  
 <211> 112  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 1034
Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
1           5           10           15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
      20           25           30
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu

```

35					40					45					
Ala	Ala	Lys	Leu	Met	Lys	Asp	Val	Ile	Ala	Glu	Pro	Tyr	Arg	Glu	Arg
50					55					60					
Leu	Leu	Pro	Gly	Phe	Arg	Gln	Ala	Arg	Gln	Ala	Val	Ala	Glu	Ile	Gly
65					70					75					
Ala	Val	Ala	Ser	Gly	Ile	Ser	Gly	Ser	Gly	Pro	Thr	Leu	Phe	Ala	Leu
85					90					95					
Cys	Asp	Lys	Pro	Glu	Thr	Ala	Gln	Arg	Val	Ala	Asp	Trp	Leu	Gly	Lys
100					105					110					
										112					

```
<210> 1035
<211> 92
<212> Amino acid
<213> Homo sapiens
```

<400> 1035																			
Gly	Gln	Gln	Gln	Arg	Val	Ala	Leu	Ala	Arg	Ala	Leu	Ile	Leu	Lys	Pro				
1				5					10					15					
Lys	Val	Leu	Leu	Phe	Asp	Glu	Pro	Leu	Ser	Asn	Leu	Asp	Ala	Asn	Leu				
			20					25					30						
Arg	Arg	Ser	Met	Arg	Asp	Lys	Ile	Arg	Glu	Leu	Gln	Lys	Gln	Phe	Asp				
			35				40					45							
Ile	Thr	Ser	Leu	Tyr	Val	Thr	His	Asp	Gln	Ser	Glu	Ala	Phe	Ala	Val				
			50			55					60								
Ser	Asp	Thr	Val	Leu	Val	Met	Asn	Lys	Gly	His	Ile	Met	Gln	Ile	Gly				
			65		70				75						80				
Ser	Pro	Gln	Asp	Leu	Arg	Val	Arg	Arg	Leu	Asn	Trp								
				85				90		92									

```
<210> 1036
<211> 51
<212> Amino acid
<213> Homo sapiens
```

```
<400> 1036
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys
   1                               10                      15
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala
           20              25              30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr
      35                40                45
Ser Ala Leu
    50 51
```

```
<210> 1037
<211> 72
<212> Amino acid
<213> Homo sapiens
```



&lt;400&gt; 1037

```

Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn
 1           5           10           15
Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp
          20           25           30
Ile Phe Ser Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly
          35           40           45
Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu
          50           55           60
Leu Ala Gly Tyr Tyr Glu Gly Trp
65           70           72

```

&lt;210&gt; 1038

&lt;211&gt; 188

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1038

```

Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp
 1           5           10           15
Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp
          20           25           30
His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val
          35           40           45
Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met
          50           55           60
Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile
          65           70           75           80
Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile
          85           90           95
Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu
          100          105          110
Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly
          115          120          125
Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr
          130          135          140
Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp
          145          150          155          160
Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys
          165          170          175
Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile
          180          185          188

```

&lt;210&gt; 1039

&lt;211&gt; 122

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1039

```

Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg
 1           5           10           15
Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

```

```

      20              25              30
Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly Ala Trp Thr Asp Val
      35              40              45
Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln Thr Asp Val Phe Met
      50              55              60
Thr Gln Arg Ala Thr Gly Val Ala Thr Tyr Arg Asn Asp Phe Phe
      65              70              75              80
Gly Leu Val Asp Gly Leu Asn Phe Ala Ala Gln Tyr Gln Gly Lys Asn
      85              90              95
Asp Arg Ser Asp Phe Asp Asn Tyr Thr Glu Gly Asn Gly His Gly Phe
      100              105              110
Gly Phe Ser Ala Thr Tyr Glu Tyr Glu Gly
      115              120              122

```

```

<210> 1040
<211> 65
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1040
Asp Thr Tyr Ser Val Ser Ile Pro Leu Gly Ala Thr Ile Asn Met Ala
 1          5          10          15
Gly Ala Ala Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val Asn Thr
      20              25              30
Leu Gly Ile Pro Val Asp Leu Pro Thr Ala Leu Leu Ser Val Val
      35              40              45
Ala Ser Leu Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu
      50              55              60
Leu
65

```

```

<210> 1041
<211> 46
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1041
Ala Asn Ala Gln Gln Gly Leu Pro Ser Gly Ile Thr Leu Lys Leu Asn
 1          5          10          15
Asn Leu Val Asp Lys Gly Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser
      20              25              30
Ser Gly Val Pro Val Asn Leu Leu Val Arg Gly Thr Cys Ser
      35              40              45              46

```

```

<210> 1042
<211> 146
<212> Amino acid
<213> Homo sapiens

```

<400> 1042  
 Ala Arg Met Thr Leu Ile Pro Gly Thr His Leu Leu Glu Asn Ile His  
 1 5 10 15  
 Asn Ile Trp Val Asn Gly Val Gly Thr Asn Ser Ala Pro Phe Trp Arg  
 20 25 30  
 Met Leu Leu Asn Ser Phe Val Met Ala Phe Ser Ile Thr Leu Gly Lys  
 35 40 45  
 Ile Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe  
 50 55 60  
 Pro Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu  
 65 70 75 80  
 Pro Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu  
 85 90 95  
 Gln Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser  
 100 105 110  
 Ala Thr Ala Thr Phe Leu Phe Arg Lys Leu Asn Met Ser Gly Pro Asp  
 115 120 125  
 Lys Val Val Pro Ala Ala Arg Ile Ser Gly Tyr Gly Pro Arg Val Arg  
 130 135 140  
 Lys Gln  
 145 146

<210> 1043  
 <211> 133  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1043  
 Cys Ala Lys Cys Leu Arg Asp Ala Asp Glu Cys Pro Ser Gly Ala Phe  
 1 5 10 15  
 Glu Arg Ile Gly Arg Asp Ile Ser Leu Asp Ala Leu Glu Arg Glu Val  
 20 25 30  
 Met Lys Asp Asp Ile Phe Phe Arg Thr Ser Gly Gly Gly Val Thr Leu  
 35 40 45  
 Ser Gly Gly Glu Val Leu Met Gln Ala Glu Phe Ala Thr Arg Phe Leu  
 50 55 60  
 Gln Arg Leu Arg Leu Trp Gly Val Ser Cys Ala Ile Glu Thr Ala Gly  
 65 70 75 80  
 Asp Ala Pro Ala Ser Lys Leu Leu Pro Leu Ala Lys Leu Cys Asp Glu  
 85 90 95  
 Val Leu Phe Asp Leu Lys Ile Met Asp Ala Thr Gln Ala Arg Asp Val  
 100 105 110  
 Val Lys Met Asn Leu Pro Arg Val Leu Glu Asn Leu Arg Leu Leu Val  
 115 120 125  
 Ser Glu Gly Val Asn  
 130 133

<210> 1044  
 <211> 115  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1044  
 Tyr Leu Leu Leu Phe Val Cys Phe Leu Val Met Ser Leu Leu Val Gly

```

      1           5           10           15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp
      20           25           30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu
      35           40           45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn
      50           55           60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp
      65           70           75           80
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp
      85           90           95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu
      100           105           110
Ala Val Gly
      115

```

```

<210> 1045
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1045
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val
      1           5           10           15
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe
      20           25           30
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile
      35           40           45
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile
      50           55           60
Thr Leu Glu Asp Asn
      65           69

```

```

<210> 1046
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1046
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala Gln
      1           5           10           15
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser
      20           25           30
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu
      35           40           45
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val
      50           55           60
Ala Asp Ala Leu Gln
      65           69

```

```

<210> 1047
<211> 43
<212>Amino acid

```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1047

```

Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr
 1           5           10           15
Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro
          20           25           30
Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val
      35           40           43

```

&lt;210&gt; 1048

&lt;211&gt; 77

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; {1}...{77}

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1048

```

Xaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln
 1           5           10           15
Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser
          20           25           30
Ala Leu Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala
      35           40           45
Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu
      50           55           60
Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa *
      65           70           75 76

```

&lt;210&gt; 1049

&lt;211&gt; 79

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1049

```

Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val
 1           5           10           15
Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe
          20           25           30
Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp
      35           40           45
Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro
      50           55           60
Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr
      65           70           75           79

```

<210> 1050  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1050  
 Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp  
 1 5 10 15  
 Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly  
 20 25 30  
 Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn  
 35 40 45  
 Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr  
 50 55 60  
 Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys  
 65 70 75 80  
 Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly  
 85 90 95  
 Pro Arg Ile  
 99

<210> 1051  
 <211> 114  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1051  
 Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln  
 1 5 10 15  
 Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro  
 20 25 30  
 Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp  
 35 40 45  
 Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val  
 50 55 60  
 Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala  
 65 70 75 80  
 Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys  
 85 90 95  
 Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys  
 100 105 110  
 Glu Lys  
 114

<210> 1052  
 <211> 210  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1052

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly  
 1 5 10 15  
 Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu  
 20 25 30  
 Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser  
 35 40 45  
 Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg  
 50 55 60  
 Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val  
 65 70 75 80  
 Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu  
 85 90 95  
 Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr  
 100 105 110  
 Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His  
 115 120 125  
 His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln  
 130 135 140  
 Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu  
 145 150 155 160  
 Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val  
 165 170 175  
 Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala  
 180 185 190  
 Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg  
 195 200 205  
 Leu Leu  
 210

<210> 1053  
 <211> 100  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1053  
 Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly  
 1 5 10 15  
 Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu  
 20 25 30  
 Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser  
 35 40 45  
 Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu  
 50 55 60  
 Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser  
 65 70 75 80  
 His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp  
 85 90 95  
 Lys Arg Leu Gln  
 100

<210> 1054  
 <211> 194  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1054  
 Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Phe Leu Arg Trp Ser Phe  
 1 5 10 15  
 Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu  
 20 25 30  
 Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu  
 35 40 45  
 Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe  
 50 55 60  
 Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu  
 65 70 75 80  
 Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile  
 85 90 95  
 Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Phe Phe Leu Arg Trp  
 100 105 110  
 Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly  
 115 120 125  
 Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe  
 130 135 140  
 Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys  
 145 150 155 160  
 Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser  
 165 170 175  
 Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Glu Thr Val Gln  
 180 185 190  
 Gly Leu  
 194

<210> 1055  
 <211> 351  
 <212> Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc feature  
 <222> (1)...(351)  
 <223> X = any amino acid or stop code

<400> 1055  
 Met Gly Asn Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val  
 1 5 10 15  
 Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu  
 20 25 30  
 Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys  
 35 40 45  
 Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys  
 50 55 60  
 Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val  
 65 70 75 80  
 Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu  
 85 90 95  
 Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys  
 100 105 110  
 Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu  
 115 120 125  
 Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala  
 130 135 140  
 Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser



```

145          150          155          160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
          165          170          175
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
          180          185          190
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
          195          200          205
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
          210          215          220
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe
          225          230          235          240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val
          245          250          255
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn
          260          265          270
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly
          275          280          285
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
          290          295          300
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
          305          310          315          320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Ile
          325          330          335
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe
          340          345          350          351

```

&lt;210&gt; 1056

&lt;211&gt; 136

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(136)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1056

```

Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
1          5          10          15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
          20          25          30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
          35          40          45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
          50          55          60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
          65          70          75          80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
          85          90          95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
          100          105          110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
          115          120          125
Leu Thr Thr Ser Thr Ser Thr Phe
          130          135          136

```

&lt;210&gt; 1057

&lt;211&gt; 79

<212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(79)  
 <223> X = any amino acid or stop code

<400> 1057  
 Thr Phe His Ser Ser Leu Glu Lys Asn Ile Leu Gln Pro Cys Arg Xaa  
 1 5 10 15  
 Arg Arg Ala Ile Cys Leu Pro Leu Leu Leu Xaa Pro Ser Val Pro Leu  
 20 25 30  
 Leu Ala Pro Gln Tyr Phe Ser Asp Leu Arg Asn Ser Ile Val Asn Ser  
 35 40 45  
 Gln Pro Pro Glu Lys Gln Gln Ala Met His Leu Cys Phe Glu Asn Leu  
 50 55 60  
 Met Glu Gly Ile Glu Arg Asn Leu Leu Thr Lys Asn Arg Asp Arg  
 65 70 75 79

<210> 1058  
 <211> 458  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(458)  
 <223> X = any amino acid or stop code

<400> 1058  
 Gly Thr Ser Gly Val Gln Gln Glu Ile Ser Arg Leu Thr Asn Glu Asn  
 1 5 10 15  
 Leu Asp Leu Lys Glu Leu Val Glu Lys Leu Glu Lys Asn Glu Arg Lys  
 20 25 30  
 Leu Lys Lys Gln Leu Lys Ile Tyr Met Lys Lys Ala Gln Asp Leu Glu  
 35 40 45  
 Ala Ala Gln Ala Leu Ala Gln Ser Glu Arg Lys Arg His Glu Leu Asn  
 50 55 60  
 Arg Gln Val Thr Val Gln Arg Lys Glu Lys Asp Phe Gln Gly Met Leu  
 65 70 75 80  
 Glu Tyr His Lys Glu Asp Glu Ala Leu Leu Ile Arg Asn Leu Val Thr  
 85 90 95  
 Asp Leu Lys Pro Gln Met Leu Ser Gly Thr Val Pro Cys Leu Pro Ala  
 100 105 110  
 Tyr Ile Leu Tyr Met Cys Ile Arg His Ala Asp Tyr Thr Asn Asp Asp  
 115 120 125  
 Leu Lys Val His Ser Leu Leu Thr Ser Thr Ile Asn Gly Ile Lys Lys  
 130 135 140  
 Val Leu Lys Lys His Asn Asp Asp Phe Glu Met Thr Ser Phe Trp Leu  
 145 150 155 160  
 Ser Asn Thr Cys Arg Leu Leu His Cys Leu Lys Gln Tyr Ser Gly Asp  
 165 170 175  
 Glu Gly Phe Met Thr Gln Asn Thr Ala Lys Gln Asn Glu His Cys Leu  
 180 185 190

```

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser
    195                200                205
Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln
    210                215                220
Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu
    225                230                235                240
Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala
    245                250                255
Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn
    260                265                270
Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile
    275                280                285
Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu
    290                295                300
Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met
    305                310                315                320
Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg
    325                330                335
Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln
    340                345                350
Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu
    355                360                365
Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys
    370                375                380
Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr
    385                390                395                400
Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp
    405                410                415
Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe
    420                425                430
Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala
    435                440                445
Cys Leu Asn Leu Glu Phe Leu Asn Glu Val
    450                455                458

```

&lt;210&gt; 1059

&lt;211&gt; 82

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(82)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1059

```

His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro
    1                5                10                15
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu
    20                25                30
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp
    35                40                45
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro
    50                55                60
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser
    65                70                75                80
Ser Asn
    82

```

<210> 1060  
 <211> 277  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1060  
 Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr  
 1 5 10 15  
 Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys  
 20 25 30  
 Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu  
 35 40 45  
 Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His  
 50 55 60  
 Lys Lys Asn Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly  
 65 70 75 80  
 Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln  
 85 90 95  
 Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala  
 100 105 110  
 Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala  
 115 120 125  
 Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His  
 130 135 140  
 Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr  
 145 150 155  
 Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys  
 160 165 170 175  
 Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys  
 180 185 190  
 Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn  
 195 200 205  
 Pro Lys Gly Leu Tyr Ala Asp Gly Gly Cys Lys Leu Cys Gly Ser  
 210 215 220  
 Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg  
 225 230 235 240  
 Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu  
 245 250 255  
 Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro  
 260 265 270  
 Lys Val Val Asn Phe  
 275 277

<210> 1061  
 <211> 95  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(95)  
 <223> X = any amino acid or stop code

<400> 1061

```

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val
 1          5          10          15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe
          20          25          30
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
          35          40          45
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn
          50          55          60
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser
          65          70          75          80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly
          85          90          95

```

&lt;210&gt; 1062

&lt;211&gt; 259

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(259)

&lt;223&gt; X = any amino acid or stop code

```

<400> 1062
Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro
 1          5          10          15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile
          20          25          30
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly
          35          40          45
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro
          50          55          60
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly
          65          70          75          80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn
          85          90          95
Tyr Ile Pro Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met
          100          105          110
Ala Gly Arg Glu Gly Arg Pro Ser Ser Leu Leu Pro Lys Pro Gly Lys
          115          120          125
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala
          130          135          140
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala
          145          150          155          160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser
          165          170          175
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro
          180          185          190
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn
          195          200          205
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys
          210          215          220
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro
          225          230          235          240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile
          245          250          255
Ser Gln Leu
          259

```

<210> 1063  
 <211> 498  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1063  
 Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu  
 1 5 10 15  
 His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met  
 20 25 30  
 Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile  
 35 40 45  
 Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala  
 50 55 60  
 Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu  
 65 70 75 80  
 Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val  
 85 90 95  
 Phe Ala Leu Tyr Leu Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met  
 100 105 110  
 Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly  
 115 120 125  
 Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala  
 130 135 140  
 Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu  
 145 150 155 160  
 Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr  
 165 170 175  
 Asn Val Glu Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met  
 180 185 190  
 Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu  
 195 200 205  
 Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His  
 210 215 220  
 Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu  
 225 230 235 240  
 Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro  
 245 250 255  
 Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala  
 260 265 270  
 Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser  
 275 280 285  
 Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr  
 290 295 300  
 Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln  
 305 310 315 320  
 Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp  
 325 330 335  
 Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro  
 340 345 350  
 Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser  
 355 360 365  
 Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met  
 370 375 380  
 Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser  
 385 390 395 400  
 Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly  
 405 410 415  
 Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

```

          420          425          430
Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe
          435          440          445
Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys
          450          455          460
Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val
          465          470          475          480
Gly Pro Arg Gly Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser
          485          490          495
Gly Arg
          498

```

```

<210> 1064
<211> 374
<212> Amino acid
<213> Homo sapiens

```

```

          <400> 1064
Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro
  1          5          10          15
Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser
          20          25          30
Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly
          35          40          45
Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu
          50          55          60
Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser
          65          70          75          80
Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile
          85          90          95
Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr
          100          105          110
Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala
          115          120          125
Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr
          130          135          140
Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp
          145          150          155          160
Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp
          165          170          175
Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu
          180          185          190
Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val
          195          200          205
Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile
          210          215          220
Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val
          225          230          235          240
Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr
          245          250          255
Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys
          260          265          270
Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu
          275          280          285
Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys
          290          295          300
Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser
          305          310          315          320
Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys

```

[illegible]

```
<210> 1065
<211> 278
<212> Amino acid
<213> Homo sapiens
```

[illegible]

```
<210> 1066
<211> 502
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc feature
```



&lt;222&gt; (1)...(502)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1066

```

Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp
1          5          10          15
His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys
20          25          30
Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala
35          40          45
Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln
50          55          60
Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu
65          70          75          80
Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His
85          90          95
Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly
100          105          110
Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys
115          120          125
Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu
130          135          140
Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg
145          150          155          160
Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys
165          170          175
Thr His Leu Leu Gln Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg
180          185          190
Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala
195          200          205
Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala
210          215          220
Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu
225          230          235          240
Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly
245          250          255
Leu Leu Arg Glu Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile
260          265          270
Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu
275          280          285
Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn
290          295          300
Ser Lys Leu Lys Gln Ile Glu Lys Lys Glu Tyr Thr Gln Lys Leu Ala Lys
305          310          315          320
Ser Ser Gln Ile Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys
325          330          335
Glu Glu Asn Ser Gln Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp
340          345          350
Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn
355          360          365
Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn
370          375          380
Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser
385          390          395          400
Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys
405          410          415
Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser
420          425          430
Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu
435          440          445

```

```

Gln Glu Glu Arg Asp Tyr Ile Ser Arg Gln Lys Val Gln Pro Ile Ser
450 455 460
Arg Xaa Leu His Glu Arg Met Gln Arg Met Arg Ile Ser Arg Leu Cys
465 470 475 480
Cys Gly Thr Ser Ser Arg Phe Glu Asp Leu Asp Ile Val Asn Cys
485 490 495
Glu Ile Ser Gly Ile Phe
500 502

```

```

<210> 1067
<211> 301
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> {1}...{301}
<223> X = any amino acid or stop code

```

```

<400> 1067
Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys
1 5 10 15
Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe
20 25 30
Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr
35 40 45
Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp
50 55 60
Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser
65 70 75 80
Thr Met Leu Lys Leu Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile
85 90 95
Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His
100 105 110
Val Glu Gln Leu Asp Leu Asn Val Gln Cys Leu Trp Glu Leu Ala Gly
115 120 125
His Ala Ser Phe Pro Gly Arg Pro Glu Glu Glu Tyr Arg His Gln Leu
130 135 140
Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Ala Met Arg Pro Leu Cys
145 150 155 160
Gln Pro Val Leu Gly Ala Arg Lys Lys Pro Lys Trp Pro Phe Ala Gln
165 170 175
Met Asp Tyr Cys Pro Ala Pro Thr Phe Tyr Ile Leu Asp Glu Pro Thr
180 185 190
Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys Leu
195 200 205
Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa Ser
210 215 220
Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly Gly
225 230 235 240
Gly Val Thr Arg Val Glu Arg Lys Asp Phe Asp Gln Tyr Arg Ala Leu
245 250 255
Leu Gln Gly Thr Val Ser Ala Arg Glu Gly Phe Pro Leu Gly Pro Pro
260 265 270
Arg Leu Lys Asp Ser Pro Arg Asp Met Gly Leu Val Ser Gln Thr Pro
275 280 285
Trp Gly His His Val Gly Tyr Pro Leu Pro Gly Arg Gly
290 295 300 301

```

<210> 1068  
 <211> 215  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1068  
 Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala  
 1 5 10 15  
 Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr  
 20 25 30  
 Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn  
 35 40 45  
 Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp  
 50 55 60  
 Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr  
 65 70 75 80  
 Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp  
 85 90 95  
 Ser Tyr Glu Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser  
 100 105 110  
 Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu  
 115 120 125  
 Gln Ser Val His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg  
 130 135 140  
 Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala  
 145 150 155 160  
 Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala  
 165 170 175  
 Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu  
 180 185 190  
 Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu  
 195 200 205  
 Glu Lys Glu Glu Ser Lys Ser  
 210 215

<210> 1069  
 <211> 274  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(274)  
 <223> X = any amino acid or stop code

<400> 1069  
 Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala  
 1 5 10 15  
 Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln  
 20 25 30  
 Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg  
 35 40 45  
 Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp  
 50 55 60

```

Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu
65          70          75          80
Pro Ser Tyr Ile Ser Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa
85          90          95
Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys
100         105         110
Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe
115         120         125
Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser
130         135         140
Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly
145         150         155         160
Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val
165         170         175
Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn
180         185         190
Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp
195         200         205
Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val
210         215         220
Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu
225         230         235         240
Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Asp Val Pro Asp Gln
245         250         255
Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro
260         265         270
His Ser
274

```

&lt;210&gt; 1070

&lt;211&gt; 368

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(368)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1070

```

Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
1          5          10          15
Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
20         25         30
Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
35         40         45
Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
50         55         60
Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
65         70         75         80
Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
85         90         95
Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
100        105        110
Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
115        120        125
Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
130        135        140
Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn

```

```

145              150              155              160
Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser
              165              170              175
Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu
              180              185              190
Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala
              195              200              205
Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala
              210              215              220
Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile
              225              230              235
Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr
              245              250              255
Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly
              260              265              270
Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Xaa Val Gly Glu Glu Leu
              275              280              285
Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp
              290              295              300
Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys
              305              310              315
Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly
              325              330              335
Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met
              340              345              350
Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Phe Ser Met Leu Gly
              355              360              365              368

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```

<210> 1071
<211> 81
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1071
Ala Leu Cys Val Val Pro Phe Asn Thr Phe His Asn Asp Phe Leu Leu
 1              5              10              15
Leu Asp Lys Glu Gly Thr Leu Asp Pro Val Met Asp Ser Phe Ser Thr
              20              25              30
His Trp Thr Thr Ile Gly Pro Ala Asp Met Phe Phe Ser Phe Arg Gln
              35              40              45
His Tyr Lys Asn Phe Lys Ser His Gly Thr Asn Pro Ser Lys Ser Val
              50              55              60
Trp Ala His Ala Thr Cys Gln Ser Cys Ala Phe Pro Asn Leu Leu Gly
 65              70              75              80
Trp
81

```

```

<210> 1072
<211> 494
<212>Amino acid
<213> Homo sapiens

```

<400> 1072  
 Thr Arg Leu Ala Glu Phe Gly Thr Arg Asp Pro Cys Ala Gln Ala Pro  
 1 5 10 15  
 Cys Glu Gln Gln Cys Glu Pro Gly Gly Pro Gln Gly Tyr Ser Cys His  
 20 25 30  
 Cys Arg Leu Gly Phe Arg Pro Ala Glu Asp Asp Pro His Arg Cys Val  
 35 40 45  
 Asp Thr Asp Glu Cys Gln Ile Ala Gly Val Cys Gln Gln Met Cys Val  
 50 55 60  
 Asn Tyr Val Gly Gly Phe Glu Cys Tyr Cys Ser Glu Gly His Glu Leu  
 65 70 75 80  
 Glu Ala Asp Gly Ile Ser Cys Ser Pro Ala Gly Ala Met Gly Ala Gln  
 85 90 95  
 Ala Ser Gln Asp Leu Gly Asp Glu Leu Leu Asp Asp Gly Glu Asp Glu  
 100 105 110  
 Glu Asp Glu Asp Glu Ala Trp Lys Ala Phe Asn Gly Gly Trp Thr Glu  
 115 120 125  
 Met Pro Gly Ile Leu Trp Met Glu Pro Thr Gln Pro Pro Asp Phe Ala  
 130 135 140  
 Leu Ala Tyr Arg Pro Ser Phe Pro Glu Asp Arg Glu Pro Gln Ile Pro  
 145 150 155 160  
 Tyr Pro Glu Pro Thr Trp Pro Pro Pro Leu Ser Ala Pro Arg Val Pro  
 165 170 175  
 Tyr His Ser Ser Val Leu Ser Val Thr Arg Pro Val Val Val Ser Ala  
 180 185 190  
 Thr His Pro Thr Leu Pro Ser Ala His Gln Pro Pro Val Ile Pro Ala  
 195 200 205  
 Thr His Pro Ala Leu Ser Arg Asp His Gln Ile Pro Val Ile Ala Ala  
 210 215 220  
 Asn Tyr Pro Asp Leu Pro Ser Ala Tyr Gln Pro Gly Ile Leu Ser Val  
 225 230 235 240  
 Ser His Ser Ala Gln Pro Pro Ala His Gln Pro Pro Met Ile Ser Thr  
 245 250 255  
 Lys Tyr Pro Glu Leu Phe Pro Ala His Gln Ser Pro Met Phe Pro Asp  
 260 265 270  
 Thr Arg Val Ala Gly Thr Gln Thr Thr Thr His Leu Pro Gly Ile Pro  
 275 280 285  
 Pro Asn His Ala Pro Leu Val Thr Thr Leu Gly Ala Gln Leu Pro Pro  
 290 295 300  
 Gln Ala Pro Asp Ala Leu Val Leu Arg Thr Gln Ala Thr Gln Leu Pro  
 305 310 315 320  
 Ile Ile Pro Thr Ala Gln Pro Ser Leu Thr Thr Thr Ser Arg Ser Pro  
 325 330 335  
 Val Ser Pro Ala His Gln Ile Ser Val Pro Ala Ala Thr Gln Pro Ala  
 340 345 350  
 Ala Leu Pro Thr Leu Leu Pro Ser Gln Ser Pro Thr Asn Gln Thr Ser  
 355 360 365  
 Pro Ile Ser Pro Thr His Pro His Ser Lys Ala Pro Gln Ile Pro Arg  
 370 375 380  
 Glu Asp Gly Pro Ser Pro Lys Leu Ala Leu Trp Leu Pro Ser Pro Ala  
 385 390 395 400  
 Pro Thr Ala Ala Pro Thr Ala Leu Gly Glu Ala Gly Leu Ala Glu His  
 405 410 415  
 Ser Gln Arg Asp Asp Arg Trp Leu Leu Val Ala Leu Leu Val Pro Thr  
 420 425 430  
 Cys Val Phe Leu Val Val Leu Leu Ala Leu Gly Ile Val Tyr Cys Thr  
 435 440 445  
 Arg Cys Gly Pro His Ala Pro Asn Lys Arg Ile Thr Asp Cys Tyr Arg  
 450 455 460  
 Trp Val Ile His Ala Gly Ser Lys Ser Pro Thr Glu Pro Met Pro Pro  
 465 470 475 480  
 Arg Gly Ser Leu Thr Gly Val Gln Thr Cys Arg Thr Ser Val  
 485 490 494

<210> 1073  
 <211> 468  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1073  
 Leu Arg Val Arg Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg  
 1 5 10 15  
 Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro  
 20 25 30  
 Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln  
 35 40 45  
 Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu  
 50 55 60  
 Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu  
 65 70 75 80  
 Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala  
 85 90 95  
 Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala  
 100 105 110  
 His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly  
 115 120 125  
 Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val  
 130 135 140  
 Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp  
 145 150 155 160  
 Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu  
 165 170 175  
 Phe Leu Val Gly Asp Leu Val Val Thr Asn Thr Ser Leu Pro Trp  
 180 185 190  
 Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu  
 195 200 205  
 His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp  
 210 215 220  
 Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr  
 225 230 235 240  
 Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val  
 245 250 255  
 Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln  
 260 265 270  
 Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg  
 275 280 285  
 Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met  
 290 295 300  
 Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp  
 305 310 315 320  
 Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro  
 325 330 335  
 Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp  
 340 345 350  
 Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys  
 355 360 365  
 Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro  
 370 375 380  
 Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala  
 385 390 395 400  
 Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met  
 405 410 415  
 Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met

		420						425						430	
Cys	Cys	Gly	Pro	Phe	Leu	Leu	Glu	Thr	Pro	Ser	Glu	Tyr	Leu	Glu	Ile
		435					440					445			
Val	Arg	Glu	Asn	His	Gly	Leu	Leu	Pro	Pro	Leu	Tyr	Lys	Ser	Val	Lys
		450				455					460				
Thr	Tyr	Thr	Val												
465		468													

&lt;210&gt; 1074

&lt;211&gt; 288

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

Val	Val	Glu	Phe	Ala	Phe	Gln	Leu	Ser	Ser	Val	Ser	Val	Cys	Leu	Thr
1			5					10					15		
Val	Ser	Phe	Gly	Trp	Gln	Leu	Gly	Thr	Val	Ser	Ser	Cys	Leu	Ser	Arg
		20					25						30		
Asp	Trp	Phe	Leu	Lys	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Val	Ser	Val	Leu
		35				40						45			
Ile	Ile	Leu	Pro	Leu	Ala	Leu	Met	Lys	His	Leu	Gly	Tyr	Leu	Gly	Tyr
		50				55					60				
Thr	Ser	Gly	Leu	Ser	Leu	Thr	Cys	Met	Leu	Phe	Phe	Leu	Val	Ser	Val
65					70					75				80	
Ile	Tyr	Lys	Lys	Phe	Gln	Leu	Gly	Cys	Ala	Ile	Gly	His	Asn	Glu	Thr
			85					90					95		
Ala	Met	Glu	Ser	Glu	Ala	Leu	Val	Gly	Leu	Pro	Ser	Gln	Gly	Leu	Asn
		100						105					110		
Ser	Ser	Cys	Glu	Ala	Gln	Met	Phe	Thr	Val	Asp	Ser	Gln	Met	Ser	Tyr
		115				120						125			
Thr	Val	Pro	Ile	Met	Ala	Phe	Ala	Phe	Val	Cys	His	Pro	Glu	Val	Leu
		130			135					140					
Pro	Ile	Tyr	Thr	Glu	Leu	Cys	Arg	Pro	Ser	Lys	Arg	Arg	Met	Gln	Ala
145				150					155				160		
Val	Ala	Asn	Val	Ser	Ile	Gly	Ala	Met	Phe	Cys	Met	Tyr	Gly	Leu	Thr
		165						170					175		
Ala	Thr	Phe	Gly	Tyr	Leu	Thr	Phe	Tyr	Ser	Ser	Val	Lys	Ala	Glu	Met
		180					185						190		
Leu	His	Met	Tyr	Ser	Gln	Lys	Asp	Pro	Leu	Ile	Leu	Cys	Val	Arg	Leu
		195					200					205			
Ala	Val	Leu	Leu	Ala	Val	Thr	Leu	Thr	Val	Pro	Val	Val	Leu	Phe	Pro
		210			215					220					
Ile	Arg	Arg	Ala	Leu	Gln	Gln	Leu	Leu	Phe	Pro	Gly	Lys	Ala	Phe	Ser
225					230					235				240	
Trp	Pro	Arg	His	Val	Ala	Ile	Ala	Leu	Ile	Leu	Leu	Val	Leu	Val	Asn
			245					250					255		
Val	Leu	Val	Ile	Cys	Val	Pro	Thr	Ile	Arg	Asp	Ile	Phe	Gly	Val	Ile
		260					265					270			
Gly	Ser	Thr	Ser	Ala	Pro	Ser	Leu	Ile	Phe	Ile	Leu	Pro	Ser	Cys	Ile
		275				280						285		288	

&lt;210&gt; 1075

&lt;211&gt; 273

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> X = any amino acid or stop code

<400> 1075  
 Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser  
 1 5 10 15  
 Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys  
 20 25 30  
 Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu  
 35 40 45  
 Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys  
 50 55 60  
 Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe  
 65 70 75 80  
 Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val  
 85 90 95  
 Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe  
 100 105 110  
 Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn  
 115 120 125  
 Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu  
 130 135 140  
 Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Gly Trp His Cys  
 145 150 155 160  
 Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile  
 165 170 175  
 Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe  
 180 185 190  
 Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg  
 195 200 205  
 Ile Gln Gln Leu Lys Gln Leu Leu Glu Asp Ser Thr Ser Gly Glu Asp  
 210 215 220  
 Arg Ser Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys  
 225 230 235 240  
 Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys  
 245 250 255  
 Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser  
 260 265 270  
 Glu  
 273

<210> 1076  
 <211> 815  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(815)  
 <223> X = any amino acid or stop code

<400> 1076  
 Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1 5 10 15  
 Leu Pro Gly Ser Gly Ser Val Leu Leu Asp Pro Cys Thr Gly Ser Thr  
 20 25 30  
 Ile Ser Glu Thr Thr Ser Glu Ala Trp Ser Val Glu Val Leu Pro Ser  
 35 40 45  
 Asp Ser Glu Ala Pro Asp Leu Lys Gln Glu Glu Arg Leu Gln Glu Leu  
 50 55 60  
 Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Asp Thr Asp Val Arg  
 65 70 75 80  
 Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly  
 85 90 95  
 Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg  
 100 105 110  
 Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro  
 115 120 125  
 Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys  
 130 135 140  
 Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu  
 145 150 155 160  
 Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser  
 165 170 175  
 Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala  
 180 185 190  
 Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro  
 195 200 205  
 Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu  
 210 215 220  
 Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala  
 225 230 235 240  
 Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg  
 245 250 255  
 Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser  
 260 265 270  
 Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Glu Leu Pro Pro Ala Ala  
 275 280 285  
 Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser  
 290 295 300  
 Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp  
 305 310 315 320  
 Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg  
 325 330 335  
 Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu  
 340 345 350  
 Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr  
 355 360 365  
 Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala  
 370 375 380  
 Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro  
 385 390 395 400  
 Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp  
 405 410 415  
 Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile  
 420 425 430  
 Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln  
 435 440 445  
 Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Lys Leu Arg Leu Ala  
 450 455 460  
 Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr  
 465 470 475 480  
 Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val  
 485 490 495  
 Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys  
 500 505 510  
 Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe

515	520	525
Asp Asn Arg Thr Cys Arg Lys Leu Leu Ala Ser Ile Ala Glu Asp Tyr		
530	535	540
Arg Lys Arg Ala Pro Tyr Ile Ala Tyr Leu Thr Arg Cys Arg Gln Gly		
545	550	555
Leu Gln Thr Thr Gln Ala His Leu Glu Arg Leu Leu Gln Arg Val Leu		
565	570	575
Arg Asp Lys Glu Val Ala Asn Arg Tyr Phe Thr Thr Val Cys Val Arg		
580	585	590
Leu Leu Leu Glu Ser Lys Glu Lys Lys Ile Arg Glu Phe Ile Gln Asp		
595	600	605
Phe Gln Lys Leu Thr Ala Ala Asp Asp Lys Thr Ala Gln Val Glu Asp		
610	615	620
Phe Leu Gln Phe Leu Tyr Gly Ala Met Ala Gln Asp Val Ile Trp Gln		
625	630	635
Asn Ala Ser Glu Glu Gln Leu Gln Asp Ala Gln Leu Ala Ile Glu Arg		
645	650	655
Ser Val Met Asn Arg Ile Phe Lys Leu Ala Phe Tyr Pro Asn Gln Asp		
660	665	670
Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu His Ile Gln Arg Leu		
675	680	685
Ser Lys Val Val Thr Ala Asn His Arg Ala Leu Gln Ile Pro Glu Val		
690	695	700
Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile Arg Thr		
705	710	715
Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu Arg		
725	730	735
Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu Ala Asn Glu Asp Ser		
740	745	750
Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile		
755	760	765
Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser		
770	775	780
Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln		
785	790	795
Phe Thr Ala Ala Val Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys		
805	810	815

&lt;210&gt; 1077

&lt;211&gt; 256

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

Trp Pro Met Ser Leu Ala Arg Gly His Gly Asp Thr Ala Ala Ser Thr	
1	5
Ala Ala Pro Leu Ser Glu Glu Gly Glu Val Thr Ser Gly Leu Gln Ala	
20	25
Leu Ala Val Glu Asp Thr Gly Gly Pro Ser Ala Ser Ala Gly Lys Ala	
35	40
Glu Asp Glu Gly Glu Gly Gly Arg Glu Glu Thr Glu Arg Glu Gly Ser	
50	55
Gly Gly Glu Glu Ala Gln Gly Glu Val Pro Ser Ala Gly Gly Glu Glu	
65	70
Pro Ala Glu Glu Asp Ser Glu Asp Trp Cys Val Pro Cys Ser Asp Glu	
85	90
Glu Val Glu Leu Pro Ala Asp Gly Gln Pro Trp Met Pro Pro Ser	
100	105
Glu Ile Gln Arg Leu Tyr Glu Leu Leu Ala Ala His Gly Thr Leu Glu	
	110

115	120	125
Leu Gln Ala Glu Ile	Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln	
130	135	140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu		
145	150	155
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro		
165	170	175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser		
180	185	190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser		
195	200	205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly		
210	215	220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro		
225	230	235
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr		
245	250	255
		256

&lt;210&gt; 1078

&lt;211&gt; 590

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(590)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1078

Leu Gly Arg Gly Thr	Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
1	5 10 15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr	
20	25 30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr	
35	40 45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln	
50	55 60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu	
65	70 75
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr	
85	90 95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys	
100	105 110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu	
115	120 125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly	
130	135 140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser	
145	150 155
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu	
165	170 175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu	
180	185 190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr	
195	200 205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly	
210	215 220

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Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro
225          230          235          240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile
          245          250          255
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met
          260          265          270
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val
          275          280          285
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu
          290          295          300
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val Gly Ser Leu Asn His
305          310          315          320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His
          325          330          335
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn
          340          345          350
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val
          355          360          365
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu
          370          375          380
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala
385          390          395          400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg
          405          410          415
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln
          420          425          430
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met
          435          440          445
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu
          450          455          460
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr
465          470          475          480
Gln Gln Ile Leu Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala
          485          490          495
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala
          500          505          510
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser
          515          520          525
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val
          530          535          540
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met
          545          550          555
Arg Gln Gln Pro Thr Ser Thr Thr Ser Ser Arg Lys Ser Lys Gln His
          565          570          575
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg
          580          585          590

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&lt;210&gt; 1079

&lt;211&gt; 904

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(904)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15
Pro Asp Glu Asp Ile Thr Ala Ser Ser Gln Trp Ser Glu Ser Thr Ala	20	25	30
Ala Lys Tyr Gly Arg Leu Asp Ser Glu Glu Gly Asp Gly Ala Trp Cys	35	40	45
Pro Glu Ile Pro Val Glu Pro Asp Asp Leu Lys Glu Phe Leu Gln Ile	50	55	60
Asp Leu His Thr Leu His Phe Ile Thr Leu Val Gly Thr Gln Gly Arg	65	70	75
His Ala Gly Gly His Gly Ile Glu Phe Ala Pro Met Tyr Lys Ile Asn	85	90	95
Tyr Ser Arg Asp Gly Thr Arg Trp Ile Ser Trp Arg Asn Arg His Gly	100	105	110
Lys Gln Val Leu Asp Gly Asn Ser Asn Pro Tyr Asp Ile Phe Leu Lys	115	120	125
Asp Leu Glu Pro Pro Ile Val Ala Arg Phe Val Arg Phe Ile Pro Val	130	135	140
Thr Asp His Ser Met Asn Val Cys Met Arg Val Glu Leu Tyr Gly Cys	145	150	155
Val Trp Leu Asp Gly Leu Val Ser Tyr Asn Ala Pro Ala Gly Gln Gln	165	170	175
Phe Val Leu Pro Gly Gly Ser Ile Ile Tyr Leu Asn Asp Ser Val Tyr	180	185	190
Asp Gly Ala Val Gly Tyr Ser Met Thr Glu Gly Leu Gly Gln Leu Thr	195	200	205
Asp Gly Val Ser Gly Leu Asp Asp Phe Thr Gln Thr His Glu Tyr His	210	215	220
Val Trp Pro Gly Tyr Asp Tyr Val Gly Trp Arg Asn Glu Ser Ala Thr	225	230	235
Asn Gly Tyr Ile Glu Ile Met Phe Glu Phe Asp Arg Ile Arg Asn Phe	245	250	255
Thr Thr Met Lys Val His Cys Asn Asn Met Phe Ala Lys Gly Val Lys	260	265	270
Ile Phe Lys Glu Val Gln Cys Tyr Phe Arg Ser Glu Ala Ser Glu Trp	275	280	285
Glu Pro Asn Ala Ile Ser Phe Pro Leu Val Leu Asp Asp Val Asn Pro	290	295	300
Ser Ala Arg Phe Val Thr Val Pro Leu His His Arg Met Ala Ser Ala	305	310	315
Ile Lys Cys Gln Tyr His Phe Ala Asp Thr Trp Met Met Phe Ser Glu	325	330	335
Ile Thr Phe Gln Ser Asp Ala Ala Met Tyr Asn Asn Ser Glu Ala Leu	340	345	350
Pro Thr Ser Pro Met Ala Pro Thr Thr Tyr Asp Pro Met Leu Lys Val	355	360	365
Asp Asp Ser Asn Thr Arg Ile Leu Ile Gly Cys Leu Val Ala Ile Ile	370	375	380
Phe Ile Leu Leu Ala Ile Ile Val Ile Ile Leu Trp Arg Gln Phe Trp	385	390	395
Gln Lys Met Leu Glu Lys Ala Ser Arg Arg Met Leu Asp Asp Glu Met	405	410	415
Thr Val Ser Leu Ser Leu Pro Ser Asp Ser Ser Met Phe Asn Asn Asn	420	425	430
Arg Ser Ser Ser Pro Ser Glu Gln Gly Ser Asn Ser Thr Tyr Asp Arg	435	440	445
Ile Phe Pro Leu Arg Pro Asp Tyr Gln Glu Pro Ser Arg Leu Ile Arg	450	455	460
Lys Leu Pro Glu Phe Ala Pro Gly Glu Glu Glu Ser Gly Cys Ser Gly	465	470	475
Val Val Lys Pro Val Gln Pro Ser Gly Pro Glu Gly Val Pro His Tyr	485	490	495
Ala Glu Ala Asp Ile Val Asn Leu Gln Gly Val Thr Gly Gly Asn Thr	500	505	510
Tyr Ser Val Pro Ala Val Thr Met Asp Leu Leu Ser Gly Lys Arg Cys			

515 520 525  
 Gly Cys Gly Arg Glu Phe Pro Gly Lys Leu Leu Thr Phe Lys Glu  
 530 535 540  
 Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu Cys Glu Val Glu  
 545 550 555 560  
 Gly Met Glu Lys Phe Lys Asp Lys Asp Phe Ala Leu Asp Val Ser Ala  
 565 570 575  
 Asn Gln Pro Val Leu Val Ala Val Lys Met Leu Arg Ala Asp Ala Asn  
 580 585 590  
 Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Ile Lys Ile Met Ser Arg  
 595 600 605  
 Leu Lys Asp Pro Asn Ile Ile His Leu Leu Ser Val Cys Ile Thr Asp  
 610 615 620  
 Asp Pro Leu Cys Met Ile Thr Glu Tyr Met Glu Asn Gly Asp Leu Asn  
 625 630 635 640  
 Gln Phe Leu Ser Arg His Glu Pro Pro Asn Ser Ser Ser Ser Asp Val  
 645 650 655  
 Arg Thr Val Ser Tyr Thr Asn Leu Lys Phe Met Ala Thr Gln Ile Ala  
 660 665 670  
 Ser Gly Met Lys Tyr Leu Ser Ser Leu Asn Phe Val His Arg Asp Leu  
 675 680 685  
 Ala Thr Arg Asn Cys Leu Val Gly Lys Asn Tyr Thr Ile Lys Ile Ala  
 690 695 700  
 Asp Phe Gly Met Ser Arg Asn Leu Tyr Ser Gly Asp Tyr Tyr Arg Ile  
 705 710 715 720  
 Gln Gly Arg Ala Val Leu Pro Ile Arg Trp Met Ser Trp Glu Ser Ile  
 725 730 735  
 Leu Leu Gly Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val  
 740 745 750  
 Thr Leu Trp Glu Thr Phe Thr Phe Cys Gln Arg Lys Gly Pro Tyr Ser  
 755 760 765  
 Gln Leu Ser Asp Glu Thr Gly Tyr Xaa Arg Asn Thr Gly Glu Phe Phe  
 770 775 780  
 Pro Arg Pro Lys Gly Gly Gln Thr Tyr Leu Pro Ser Thr Ser Pro Phe  
 785 790 795 800  
 Val Pro Asp Ser Cys Val Ile Lys Leu Met Leu Ser Cys Trp Arg Arg  
 805 810 815  
 Asp Thr Lys Asn Arg Pro Ser Phe Gln Glu Ile His Leu Leu Leu  
 820 825 830  
 Gln Gln Gly Asp Glu Arg Cys Cys Gln Cys Leu Ala Met Phe Leu Arg  
 835 840 845  
 Leu Arg Ser Ser Leu Gln Asp Leu Pro Leu Thr His Ala Tyr Ala Thr  
 850 855 860  
 Pro Ser Gly His Leu Met Lys Leu Arg Asp Arg Gly Leu Phe Ala Leu  
 865 870 875 880  
 Pro Ser Phe Pro Gly His Pro His Ser Leu Pro Leu Thr His Ile Tyr  
 885 890 895  
 Phe Phe Phe Phe Thr Leu Lys Asn  
 900 904

&lt;210&gt; 1080

&lt;211&gt; 304

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1080

Cys Ser Ala Ser Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu  
 1 5 10 15  
 Tyr Leu Pro Gly Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly

Gln	Lys	Pro	Val	Val	Pro	Thr	Leu	Tyr	Val	Thr	Glu	Ala	Glu	Ala	His
Ser	Pro	Ala	Leu	Pro	Gly	Leu	Ser	Gly	Pro	Gln	Pro	Lys	Trp	Val	Glu
Val	Glu	Glu	Thr	Ile	Glu	Val	Arg	Val	Lys	Lys	Met	Gly	Pro	Gln	Gly
Val	Ser	Pro	Thr	Thr	Glu	Val	Pro	Arg	Ser	Ser	Ser	Gly	His	Leu	Phe
Thr	Leu	Pro	Gly	Ala	Thr	Pro	Gly	Gly	Asp	Pro	Asn	Ser	Asn	Asn	Ser
Asn	Asn	Lys	Leu	Leu	Ala	Gln	Glu	Ala	Trp	Ala	Gln	Gly	Thr	Ala	Met
Val	Gly	Val	Arg	Glu	Pro	Leu	Val	Phe	Arg	Val	Asp	Ala	Arg	Gly	Ser
Val	Asp	Trp	Ala	Ala	Ser	Gly	Met	Gly	Ser	Leu	Glu	Glu	Glu	Gly	Thr
Met	Glu	Glu	Ala	Gly	Glu	Glu	Glu	Gly	Glu	Asp	Gly	Asp	Ala	Phe	Val
Thr	Glu	Glu	Ser	Gln	Asp	Thr	His	Ser	Leu	Gly	Asp	Arg	Asp	Pro	Lys
Ile	Leu	Thr	His	Asn	Gly	Arg	Met	Leu	Thr	Leu	Ala	Asp	Leu	Glu	Asp
Tyr	Val	Pro	Gly	Glu	Gly	Glu	Thr	Phe	His	Cys	Gly	Gly	Pro	Gly	Pro
Gly	Ala	Pro	Asp	Asp	Pro	Pro	Cys	Glu	Val	Ser	Val	Ile	Gln	Arg	Glu
Ile	Gly	Glu	Pro	Thr	Val	Gly	Ser	Leu	Cys	Cys	Ser	Ala	Trp	Gly	Met
His	Trp	Val	Pro	Glu	Ala	Leu	Ser	Ala	Ser	Leu	Gly	Leu	Ser	Pro	Met
Gly	Arg	His	His	Arg	Asp	Pro	Arg	Ser	Val	Ala	Leu	Arg	Ala	Pro	Gly
Ser	Ser	Cys	Gly	Arg	Pro	Arg	Leu	Gly	Leu	Trp	Ala	Val	Leu	Pro	Gly

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<210> 1081
<211> 139
<212> Amino acid
<213> Homo sapiens
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Gln Gly Leu Ala Ala Glu Phe Leu Gln Val Pro Ala Val Thr Arg Ala																			
1				5				10										15	
Tyr	Thr	Ala	Ala	Cys	Val	Leu	Thr	Thr	Ala	Ala	Val	Gln	Leu	Glu	Leu				
			20					25						30					
Leu	Ser	Pro	Phe	Gln	Leu	Tyr	Phe	Asn	Pro	His	Leu	Val	Phe	Arg	Lys				
			35				40					45							
Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Ala	Leu	Met	Gly	Phe	Ser	Leu	Leu				
			50			55					60								
Leu	Gly	Asn	Ser	Ile	Leu	Val	Asp	Leu	Leu	Gly	Ile	Ala	Val	Gly	His				
65					70					75					80				
Ile	Tyr	Tyr	Phe	Leu	Glu	Asp	Val	Phe	Pro	Asn	Gln	Pro	Gly	Gly	Lys				
			85						90					95					
Arg	Leu	Leu	Gln	Thr	Pro	Gly	Phe	Leu	Gly	Leu	Gln	Ser	Ser	Lys	Ala				
			100					105					110						
Pro	Ala	Gly	Ser	Ser	Leu	Thr	Ile	Trp	Thr	Gln	Gln	Ser	Gln	Gly	Gly				



115 120 125  
 Pro Gly Thr Ala Gly Glu Leu Ala Ala Pro Ser  
 130 135 139

<210> 1082  
 <211> 1105  
 <212> Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1105)  
 <223> X = any amino acid or stop code

<400> 1082  
 Glu Lys Asn Ala Leu Glu Pro Thr Val Tyr Phe Gly Met Gly Val Xaa  
 1 5 10 15  
 Ala Pro Gln Val Pro Arg Phe Gln Gln Arg Ile Thr Gly Tyr Gln Tyr  
 20 25 30  
 Tyr Leu Gln Leu Arg Lys Asp Ile Trp Glu Glu Gly Ile Pro Cys Thr  
 35 40 45  
 Leu Glu Gln Pro Ile His Leu Ala Gly Leu Ala Val Gln Ala Ile Phe  
 50 55 60  
 Gly Asp Phe Asp Gln Tyr Glu Ser Gln Asp Phe Leu Gln Lys Phe Ala  
 65 70 75 80  
 Leu Phe Pro Val Gly Trp Leu Gln Asp Glu Lys Val Leu Glu Glu Ala  
 85 90 95  
 Thr Gln Lys Val Ala Leu Leu His Gln Lys Tyr Arg Gly Leu Thr Ala  
 100 105 110  
 Pro Asp Ala Glu Met Leu Tyr Met Gln Glu Val Glu Arg Met Asp Gly  
 115 120 125  
 Tyr Gly Glu Glu Ser Tyr Pro Ala Lys Asp Ser Gln Gly Ser Asp Ile  
 130 135 140  
 Ser Ile Gly Ala Cys Leu Glu Gly Ile Phe Val Lys His Lys Asn Gly  
 145 150 155 160  
 Arg His Pro Val Val Phe Arg Trp His Asp Ile Ala Asn Met Ser His  
 165 170 175  
 Asn Lys Ser Phe Phe Ala Leu Glu Leu Ala Asn Lys Glu Glu Thr Ile  
 180 185 190  
 Gln Phe Gln Thr Glu Asp Met Glu Thr Ala Lys Tyr Ile Trp Arg Leu  
 195 200 205  
 Cys Val Ala Arg His Lys Phe Tyr Arg Leu Asn Gln Cys Asn Leu Gln  
 210 215 220  
 Thr Gln Thr Val Thr Val Asn Pro Ile Arg Arg Ser Ser Ser Arg  
 225 230 235 240  
 Met Ser Leu Pro Lys Pro Gln Pro Tyr Val Met Pro Pro Pro Gln  
 245 250 255  
 Leu His Tyr Asn Gly His Tyr Thr Glu Pro Tyr Ala Ser Ser Gln Asp  
 260 265 270  
 Asn Leu Phe Val Pro Asn Gln Glu Gly Tyr Tyr Gly Gln Phe Gln Thr  
 275 280 285  
 Ser Leu Asn Arg Ala Gln Ile Asp Phe Asn Gly Arg Ile Arg Asn Ala  
 290 295 300  
 Ser Val Tyr Ser Ala His Ser Thr Asn Ser Leu Asn Asn Pro Gln Pro  
 305 310 315 320  
 Tyr Leu Gln Pro Ser Pro Met Ser Ser Asn Pro Ser Ile Thr Gly Ser  
 325 330 335  
 Asp Val Met Arg Pro Asp Tyr Leu Pro Ser His Arg His Ser Ala Val  
 340 345 350

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys  
 355 360 365  
 Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu  
 370 375 380  
 Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala  
 385 390 395 400  
 Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser  
 405 410 415  
 Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser  
 420 425 430  
 Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala  
 435 440 445  
 Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr  
 450 455 460  
 Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro  
 465 470 475 480  
 Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His  
 485 490 495  
 Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His  
 500 505 510  
 His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser  
 515 520 525  
 Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu  
 530 535 540  
 His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu  
 545 550 555 560  
 Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val  
 565 570 575  
 Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu  
 580 585 590  
 Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly  
 595 600 605  
 His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu  
 610 615 620  
 Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro  
 625 630 635 640  
 Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro  
 645 650 655  
 Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro  
 660 665 670  
 Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro  
 675 680 685  
 Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu  
 690 695 700  
 Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg  
 705 710 715 720  
 Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser  
 725 730 735  
 Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys  
 740 745 750  
 Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala  
 755 760 765  
 Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys  
 770 775 780  
 Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu  
 785 790 795 800  
 Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu  
 805 810 815  
 Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu  
 820 825 830  
 Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val  
 835 840 845  
 Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn  
 850 855 860

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile  
 865 870 880  
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met  
 885 890 895  
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu  
 900 905 910  
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser  
 915 920 925  
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe  
 930 935 940  
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His  
 945 950 955 960  
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp  
 965 970 975  
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr  
 980 985 990  
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp  
 995 1000 1005  
 Pro Gln Ser Pro Asn Pro Pro Leu Leu Val His Cys Ser Ala Gly Val  
 1010 1015 1020  
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu  
 1025 1030 1035 1040  
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg  
 1045 1050 1055  
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val  
 1060 1065 1070  
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu  
 1075 1080 1085  
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr  
 1090 1095 1100  
 Ala  
 1105

&lt;210&gt; 1083

&lt;211&gt; 99

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;.

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(99)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1083

Arg Lys Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu  
 1 5 10 15  
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu  
 20 25 30  
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr  
 35 40 45  
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu  
 50 55 60  
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro  
 65 70 75 80  
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp  
 85 90 95  
 Asp Val Glu  
 99

<210> 1084  
 <211> 206  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(206)  
 <223> X = any amino acid or stop code

<400> 1084  
 Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser  
 1 5 10 15  
 Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His  
 20 25 30  
 Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe  
 35 40 45  
 Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val  
 50 55 60  
 Pro Ser Cys Ala Phe Gly Phe Leu Ser Cys Phe Pro Leu Leu Asn Ser  
 65 70 75 80  
 Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu  
 85 90 95  
 Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp  
 100 105 110  
 Arg Gly Ser Leu Gln Pro Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu  
 115 120 125  
 Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val  
 130 135 140  
 Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val  
 145 150 155 160  
 Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro  
 165 170 175  
 Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro  
 180 185 190  
 Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly  
 195 200 205 206

<210> 1085  
 <211> 99  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1085  
 Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu  
 1 5 10 15  
 Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg Arg  
 20 25 30  
 Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln  
 35 40 45  
 Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile  
 50 55 60  
 Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile  
 65 70 75 80

Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val  
                                     85                                    90                                    95  
 Ser Ile Ser  
                                     99

<210> 1086  
 <211> 53  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1086  
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His  
   1                                    5                                    10                                    15  
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln  
                                     20                                    25                                    30  
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp  
                                     35                                    40                                    45  
 Thr Val Pro Asp Ser  
                                     50                                    53

<210> 1087  
 <211> 250  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1087  
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu  
   1                                    5                                    10                                    15  
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro  
                                     20                                    25                                    30  
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly  
                                     35                                    40                                    45  
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser  
                                     50                                    55                                    60  
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys  
   65                                    70                                    75                                    80  
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala  
                                     85                                    90                                    95  
 Leu Leu Ile Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu  
                                     100                                    105                                    110  
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys  
                                     115                                    120                                    125  
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys  
                                     130                                    135                                    140  
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr  
   145                                    150                                    155                                    160  
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile  
                                     165                                    170                                    175  
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg  
                                     180                                    185                                    190  
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp  
                                     195                                    200                                    205  
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr  
   210                                    215                                    220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn  
 225 230 235 240  
 Lys Arg Trp Gly Pro His Tyr Asn Gly Leu  
 245 250

<210> 1088  
 <211> 455  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1088  
 Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys  
 1 5 10 15  
 Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys  
 20 25 30  
 Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp  
 35 40 45  
 Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu  
 50 55 60  
 Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu  
 65 70 75 80  
 Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly  
 85 90 95  
 Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr  
 100 105 110  
 Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu  
 115 120 125  
 Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Glu Pro Asp Ser Ala Ala  
 130 135 140  
 Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg  
 145 150 155 160  
 Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu  
 165 170 175  
 Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu  
 180 185 190  
 Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu  
 195 200 205  
 Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu  
 210 215 220  
 Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser  
 225 230 235 240  
 Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val  
 245 250 255  
 Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser  
 260 265 270  
 Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly  
 275 280 285  
 Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe  
 290 295 300  
 Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala  
 305 310 315 320  
 Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala  
 325 330 335  
 Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr  
 340 345 350  
 Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr  
 355 360 365  
 His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His  
 370 375 380

```

Asn Glu Glu Ser Val Arg Gln Ala Thr Lys Gly Gln Ala Gly Tyr Val
385          390          395          400
Val Tyr Lys Ser Ile Pro Tyr Gly Ser Leu Glu Glu Val Ile Pro Tyr
          405          410          415
Leu Ile Arg Arg Ala Gln Glu Asn Arg Ser Val Leu Gln Gly Ala Arg
          420          425          430
Arg Glu Gln Glu Leu Leu Ser Gln Lys Leu Trp Arg Arg Leu Leu Pro
          435          440          445
Gly Cys Arg Arg Ile Pro His
          450          455

```

&lt;210&gt; 1089

&lt;211&gt; 243

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(243)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1089

```

Val Val Glu Phe Gly Glu Met Ser Thr Ala Arg Ala Pro Glu Gly Leu
1          5          10          15
Arg Trp Phe Gln Leu Tyr Val His Pro Asp Leu Gln Leu Asn Lys Gln
          20          25          30
Leu Ile Gln Arg Val Glu Ser Leu Gly Phe Lys Ala Leu Val Ile Thr
          35          40          45
Leu Asp Thr Pro Val Cys Gly Asn Arg Arg His Asp Ile Arg Asn Gln
          50          55          60
Leu Arg Arg Asn Leu Thr Leu Thr Asp Leu Gln Ser Pro Lys Lys Gly
          65          70          75          80
Asn Ala Ile Pro Tyr Phe Gln Met Thr Pro Ile Ser Thr Ser Leu Cys
          85          90          95
Trp Asn Asp Leu Ser Trp Phe Gln Ser Ile Thr Arg Leu Pro Ile Ile
          100          105          110
Leu Lys Gly Ile Leu Thr Lys Glu Asp Ala Glu Leu Ala Val Lys His
          115          120          125
Asn Val Gln Gly Ile Ile Val Ser Asn His Gly Gly Arg Gln Leu Asp
          130          135          140
Glu Val Leu Ala Ser Ile Asp Ala Leu Thr Glu Val Gly Ala Ala Glu
          145          150          155          160
Xaa Gly Asn Met Lys Tyr Tyr Leu Asp Ala Gly Val Arg Thr Gly Asn
          165          170          175
Asp Val Gln Lys Ala Leu Ala Leu Gly Ala Lys Cys Ile Phe Leu Gly
          180          185          190
Arg Pro Ile Leu Trp Gly Leu Ala Cys Lys Gly Glu His Gly Val Lys
          195          200          205
Glu Val Leu Asn Ile Leu Thr Asn Glu Phe His Thr Ser Met Ala Leu
          210          215          220
Thr Gly Cys Arg Ser Val Ala Glu Ile Asn Arg Asn Leu Val Gln Phe
          225          230          235          240
Ser Arg Leu
          243

```

&lt;210&gt; 1090

&lt;211&gt; 90

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(90)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1090

```

Phe Phe Leu Arg Trp Ser Phe Thr Leu Leu Pro Arg Leu Glu Cys Gln
 1             5             10             15
Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Xaa
             20             25             30
Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Gly Leu Gln Val Pro Thr
             35             40             45
Ser Met Leu Gly Xaa Phe Phe Cys Ile Phe Ser Arg Glu Gly Ile Ser
             50             55             60
Pro Cys Trp Pro Gly Trp Ser Gln Thr Pro Lys Val Ile His Leu Pro
65             70             75             80
Arg Pro Pro Arg Val Leu Arg Leu Gln Ala
             85             90

```

&lt;210&gt; 1091

&lt;211&gt; 259

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(259)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1091

```

Leu Leu Cys Phe Val His Thr Ala Leu Gln Ser Phe Gln Gly Glu Leu
 1             5             10             15
Tyr Glu Pro His Val Val Ile Ala Ile Val Val Phe Leu Val Lys Leu
             20             25             30
Gly Ile Cys Lys Xaa Arg Ala Ser Trp Arg Lys Lys Val Thr Leu Val
             35             40             45
Val Lys Xaa Ser Leu Lys Ile Cys Phe Thr Lys Tyr Gly Ser Cys Tyr
             50             55             60
His Pro Gly Glu Lys Ser Ser Ser Trp Leu Phe Asn Xaa Arg Met Val
65             70             75             80
Asn Asp Cys Leu Ala Thr Ser Cys Ser Asn Arg Ser Phe Val Ile Gln
             85             90             95
Gln Ile Pro Ser Ser Asn Leu Phe Met Val Val Val Asp Ser Ser Cys
             100            105            110
Leu Cys Glu Ser Val Ala Pro Ile Thr Met Ala Pro Ile Glu Ile Arg
             115            120            125
Tyr Ile Leu Leu Cys Ala Gly Pro Leu Thr Thr Thr Glu Thr Ser Lys
130            135            140
Gly Tyr Gln Trp Xaa Gly Asn Leu Gly Glu Lys Tyr Xaa Arg Arg Lys
145            150            155            160
Ile Thr Ser Phe Pro Leu Leu Glu Arg Glu Ser Ser Xaa Glu Ser Cys
             165            170            175
His Cys Gln Ile Leu Thr Ser Glu Met Gln Ser Arg Lys Lys Gln Ser

```



[illegible]

```
<210> 1092
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code
```

[illegible]

```
<210> 1093
<211> 763
<212> Amino acid
<213> Homo sapiens
```

<400> 1093

Leu	Ile	Ser	Leu	Ala	Gly	Pro	Thr	Asp	Asp	Ile	Gln	Ser	Thr	Gly	Pro
1				5					10					15	
Gln	Val	His	Ala	Leu	Asn	Ile	Leu	Arg	Ala	Leu	Phe	Arg	Asp	Thr	Arg
			20					25					30		
Leu	Gly	Glu	Asn	Ile	Ile	Pro	Tyr	Val	Ala	Asp	Gly	Ala	Lys	Ala	Ala
		35					40					45			
Ile	Leu	Gly	Phe	Thr	Ser	Pro	Val	Trp	Ala	Val	Arg	Asn	Ser	Ser	Thr
	50					55					60				

Leu Leu Phe Ser Ala Leu Ile Thr Arg Ile Phe Gly Val Lys Arg Ala  
 65 70 75 80  
 Lys Asp Glu His Ser Lys Thr Asn Arg Met Thr Gly Arg Glu Phe Phe  
 85 90 95  
 Ser Arg Phe Pro Glu Leu Tyr Pro Phe Leu Lys Gln Leu Glu Thr  
 100 105 110  
 Val Ala Asn Thr Val Asp Ser Asp Met Gly Glu Pro Asn Arg His Pro  
 115 120 125  
 Ser Met Phe Leu Leu Leu Leu Val Leu Glu Arg Leu Tyr Ala Ser Pro  
 130 135 140  
 Met Asp Gly Thr Ser Ser Ala Leu Ser Met Gly Pro Phe Val Pro Phe  
 145 150 155 160  
 Ile Met Arg Cys Gly His Ser Pro Val Tyr His Ser Arg Glu Met Ala  
 165 170 175  
 Ala Arg Ala Leu Val Pro Phe Val Met Ile Asp His Ile Pro Asn Thr  
 180 185 190  
 Ile Arg Thr Leu Leu Ser Thr Leu Pro Ser Cys Thr Asp Gln Cys Phe  
 195 200 205  
 Arg Gln Asn His Ile His Gly Thr Leu Leu Gln Val Phe His Leu Val  
 210 215 220  
 Gln Ala Tyr Ser Asp Ser Lys His Gly Thr Asn Ser Asp Phe Gln His  
 225 230 235 240  
 Glu Leu Thr Asp Ile Thr Val Cys Thr Lys Ala Lys Leu Trp Leu Ala  
 245 250 255  
 Lys Arg Gln Asn Pro Cys Leu Val Thr Arg Ala Val Tyr Ile Asp Ile  
 260 265 270  
 Leu Phe Leu Leu Thr Cys Cys Leu Asn Arg Ser Ala Lys Asp Asn Gln  
 275 280 285  
 Pro Val Leu Glu Ser Leu Gly Phe Trp Glu Glu Val Arg Gly Ile Ile  
 290 295 300  
 Ser Gly Ser Glu Leu Ile Thr Gly Phe Pro Trp Ala Phe Lys Val Pro  
 305 310 315 320  
 Gly Leu Pro Gln Tyr Leu Gln Ser Leu Thr Arg Leu Ala Ile Ala Ala  
 325 330 335  
 Val Trp Ala Ala Ala Lys Ser Gly Glu Arg Glu Thr Asn Val Pro  
 340 345 350  
 Ile Ser Phe Ser Gln Leu Leu Glu Ser Ala Phe Pro Glu Val Arg Ser  
 355 360 365  
 Leu Thr Leu Glu Ala Leu Leu Glu Lys Phe Leu Ala Ala Ala Ser Gly  
 370 375 380  
 Leu Gly Glu Lys Gly Val Pro Pro Leu Leu Cys Asn Met Gly Glu Lys  
 385 390 395 400  
 Phe Leu Leu Leu Ala Met Lys Glu Asn His Pro Glu Cys Phe Cys Lys  
 405 410 415  
 Ile Leu Lys Ile Leu His Cys Met Asp Pro Gly Glu Trp Leu Pro Gln  
 420 425 430  
 Thr Glu His Cys Val His Leu Thr Pro Lys Glu Phe Leu Ile Trp Thr  
 435 440 445  
 Met Asp Ile Ala Ser Asn Glu Arg Ser Glu Ile Gln Ser Val Ala Leu  
 450 455 460  
 Arg Leu Ala Ser Lys Val Ile Ser His His Met Gln Thr Cys Val Glu  
 465 470 475 480  
 Asn Arg Glu Leu Ile Ala Ala Glu Leu Lys Gln Trp Val Gln Leu Val  
 485 490 495  
 Ile Leu Ser Cys Glu Asp His Leu Pro Thr Glu Ser Arg Leu Ala Val  
 500 505 510  
 Val Glu Val Leu Thr Ser Thr Thr Pro Leu Phe Leu Thr Asn Pro His  
 515 520 525  
 Pro Ile Leu Glu Leu Gln Asp Thr Leu Ala Leu Trp Lys Cys Val Leu  
 530 535 540  
 Thr Leu Leu Gln Ser Glu Glu Gln Ala Val Arg Asp Ala Ala Thr Glu  
 545 550 555 560  
 Thr Val Thr Thr Ala Met Ser Gln Glu Asn Thr Cys Gln Ser Thr Glu  
 565 570 575

```

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu
      580      585
Ala Val Leu Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly
      595      600      605
Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val
      610      615      620
Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu
      625      630      635      640
Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr
      645      650      655
Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro
      660      665      670
Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln
      675      680      685
Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu
      690      695      700
Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg
      705      710      715      720
Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly
      725      730      735
Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg
      740      745      750
Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys
      755      760      763

```

&lt;210&gt; 1094

&lt;211&gt; 413

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1094

```

His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly
  1           5           10           15
Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly
           20           25           30
Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp
           35           40           45
Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr
           50           55           60
Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu
           65           70           75           80
Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala
           85           90           95
Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Gly Phe Gly
           100          105          110
Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys
           115          120          125
Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp
           130          135          140
Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val
           145          150          155          160
Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala
           165          170          175
Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu
           180          185          190
Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu
           195          200          205
Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro
           210          215          220

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```

Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe
225          230          235          240
Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg
          245          250          255
Pro Gln Glu Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly
          260          265          270
Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala
          275          280          285
Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser
290          295          300
Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp
305          310          315          320
Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr
          325          330          335
Glu Ser Gln Asp Val Pro Trp Glu Glu Leu His Asn Arg Phe Gln Ser
          340          345          350
Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu
          355          360          365
Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser
370          375          380
Ile Trp Thr Asp Leu Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys
385          390          395          400
Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val
          405          410          413

```

<210> 1095

<211> 344

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (344)

<223> X = any amino acid or stop code

<400> 1095

```

Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His
1          5          10          15
Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile
          20          25          30
Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu
          35          40          45
Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu
50          55          60
Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn
65          70          75          80
Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys
          85          90          95
Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile
          100          105          110
Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val
          115          120          125
Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln
130          135          140
His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa
145          150          155          160
Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr
          165          170          175
Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Phe Met

```

```

180              185              190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly
195              200              205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg
210              215              220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys
225              230              235              240
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr
245              250              255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys
260              265              270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His
275              280              285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu
290              295              300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly
305              310              315              320
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro
325              330              335
Asn Leu Phe His Cys Thr Lys Ile
340              344

```

```

<210> 1096
<211> 76
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1096
Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser
1          5          10          15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala
20          25          30
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu
35          40          45
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser
50          55          60
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro
65          70          75          76

```

```

<210> 1097
<211> 1462
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1462)
<223> X = any amino acid or stop code

```

```

<400> 1097
Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
1          5          10          15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
20          25          30

```

Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser  
 35 40 45  
 Gly Lys Ile Pro His Tyr Glu Ser Glu Ile Asp Glu Asn Thr Phe Phe  
 50 55 60  
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu  
 65 70 75 80  
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu  
 85 90 95  
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser  
 100 105 110  
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser  
 115 120 125  
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu  
 130 135 140  
 Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu  
 145 150 155 160  
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro  
 165 170 175  
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn  
 180 185 190  
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu  
 195 200 205  
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn  
 210 215 220  
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser  
 225 230 235 240  
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg  
 245 250 255  
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp  
 260 265 270  
 Ser Thr Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe  
 275 280 285  
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met  
 290 295 300  
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His  
 305 310 315 320  
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val  
 325 330 335  
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His  
 340 345 350  
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys  
 355 360 365  
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His  
 370 375 380  
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys  
 385 390 395 400  
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His  
 405 410 415  
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu  
 420 425 430  
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln  
 435 440 445  
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly  
 450 455 460  
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu  
 465 470 475 480  
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val  
 485 490 495  
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg  
 500 505 510  
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr  
 515 520 525  
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn  
 530 535 540

Phe Pro Leu Glu Ile Lys Ser Leu Pro Arg Glu Ser Met Leu Thr Val  
 545 550 555 560  
 Lys Leu Phe Gly Ile Ala Cys Ala Thr Asn Asn Ala Asn Leu Leu Ala  
 565 570 575  
 Trp Thr Cys Leu Pro Leu Phe Pro Lys Glu Lys Ser Ile Leu Gly Ser  
 580 585 590  
 Met Leu Phe Ser Met Thr Leu Gln Ser Glu Pro Pro Val Glu Met Ile  
 595 600 605  
 Thr Pro Gly Val Trp Asp Val Ser Gln Pro Ser Pro Val Thr Leu Gln  
 610 615 620  
 Ile Asp Phe Pro Ala Thr Gly Trp Glu Tyr Met Lys Pro Asp Ser Glu  
 625 630 635 640  
 Glu Asn Arg Ser Asn Leu Glu Glu Pro Leu Lys Glu Cys Ile Lys His  
 645 650 655  
 Ile Ala Arg Leu Ser Gln Lys Gln Thr Pro Leu Leu Leu Ser Glu Glu  
 660 665 670  
 Lys Lys Arg Tyr Leu Trp Phe Tyr Arg Phe Tyr Cys Asn Asn Glu Asn  
 675 680 685  
 Cys Ser Leu Pro Leu Val Leu Gly Ser Ala Pro Gly Trp Asp Glu Arg  
 690 695 700  
 Thr Val Ser Glu Met His Thr Ile Leu Arg Arg Trp Thr Phe Ser Gln  
 705 710 715 720  
 Pro Leu Glu Ala Leu Gly Leu Leu Thr Ser Ser Phe Pro Asp Gln Glu  
 725 730 735  
 Ile Arg Lys Val Ala Val Gln Gln Leu Asp Asn Leu Leu Asn Asp Glu  
 740 745 750  
 Leu Leu Glu Tyr Leu Pro Gln Leu Val Gln Ala Val Lys Phe Glu Trp  
 755 760 765  
 Asn Leu Glu Ser Pro Leu Val Gln Leu Leu Leu His Arg Ser Leu Gln  
 770 775 780  
 Ser Ile Gln Val Ala His Arg Leu Tyr Trp Leu Leu Lys Asn Ala Glu  
 785 790 795 800  
 Asn Glu Ala Tyr Phe Lys Ser Trp Tyr Gln Lys Leu Leu Ala Ala Leu  
 805 810 815  
 Gln Phe Cys Ala Gly Lys Ala Leu Asn Asp Glu Phe Ser Lys Glu Gln  
 820 825 830  
 Lys Leu Ile Lys Ile Leu Gly Asp Ile Gly Glu Arg Val Lys Ser Ala  
 835 840 845  
 Ser Asp His Gln Arg Gln Glu Val Leu Lys Lys Glu Ile Gly Arg Leu  
 850 855 860  
 Glu Glu Phe Phe Gln Asp Val Asn Thr Cys His Leu Pro Leu Asn Pro  
 865 870 875 880  
 Ala Leu Cys Ile Lys Gly Ile Asp His Asp Ala Cys Ser Tyr Phe Thr  
 885 890 895  
 Ser Asn Ala Leu Pro Leu Lys Ile Thr Phe Ile Asn Ala Asn Leu Met  
 900 905 910  
 Gly Lys Asn Ile Ser Ile Ile Phe Lys Ala Gly Asp Asp Leu Arg Gln  
 915 920 925  
 Asp Met Leu Val Leu Gln Leu Ile Gln Val Met Asp Asn Ile Trp Leu  
 930 935 940  
 Gln Glu Gly Leu Asp Met Gln Met Ile Ile Tyr Arg Cys Leu Ser Thr  
 945 950 955 960  
 Gly Lys Asp Gln Arg Leu Val Gln Met Val Pro Asp Ala Val Thr Leu  
 965 970 975  
 Ala Lys Ile His Arg His Ser Gly Leu Ile Gly Pro Leu Lys Glu Asn  
 980 985 990  
 Thr Ile Lys Lys Trp Phe Ser Gln His Asn His Leu Lys Ala Asp Tyr  
 995 1000 1005  
 Glu Lys Ala Leu Arg Asn Phe Phe Tyr Ser Cys Ala Gly Trp Cys Val  
 1010 1015 1020  
 Val Thr Phe Ile Leu Gly Val Cys Asp Arg His Asn Asp Asn Ile Met  
 1025 1030 1035 1040  
 Leu Thr Lys Ser Gly His Met Phe His Ile Asp Phe Gly Lys Phe Leu  
 1045 1050 1055

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe  
 1060 1065 1070  
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn  
 1075 1080 1085  
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn  
 1090 1095 1100  
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met  
 1105 1110 1115 1120  
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr  
 1125 1130 1135  
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser  
 1140 1145 1150  
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys  
 1155 1160 1165  
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro  
 1170 1175 1180  
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser  
 1185 1190 1195 1200  
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys  
 1205 1210 1215  
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr  
 1220 1225 1230  
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln  
 1235 1240 1245  
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp  
 1250 1255 1260  
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu  
 1265 1270 1275 1280  
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn  
 1285 1290 1295  
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr  
 1300 1305 1310  
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys  
 1315 1320 1325  
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr  
 1330 1335 1340  
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala  
 1345 1350 1355 1360  
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val  
 1365 1370 1375  
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr  
 1380 1385 1390  
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val  
 1395 1400 1405  
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn  
 1410 1415 1420  
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu  
 1425 1430 1435 1440  
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe  
 1445 1450 1455  
 Met Gln Ser Val Leu His  
 1460 1462

&lt;210&gt; 1098

&lt;211&gt; 111

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(111)

&lt;223&gt; X = any amino acid or stop code



&lt;400&gt; 1098

```

Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln
 1           5           10           15
Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Gln
           20           25           30
Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro
 35           40           45
Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg
 50           55           60
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro
 65           70           75           80
Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro
           85           90           95
Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro
           100           105           110           111

```

&lt;210&gt; 1099

&lt;211&gt; 1070

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (1070)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1099

```

Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala
 1           5           10           15
Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln
           20           25           30
Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp
 35           40           45
Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu
 50           55           60
Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe
 65           70           75           80
Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met
           85           90           95
Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala
           100           105           110
Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln
           115           120           125
Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Asp Ile Val Ser Met Asp
           130           135           140
Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Glu Cys Thr Arg
           145           150           155           160
Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Ser Ile
           165           170           175
Ala Phe Phe Ser Leu Leu Leu Phe Leu Thr Ser Phe Phe Phe Ala Met
           180           185           190
Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg
           195           200           205
Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys
           210           215           220

```

Gly Leu Asp Ala Phe Leu Gly Leu Ala Thr Pro Lys Leu Met Val Pro  
 225 230 235 240  
 Arg Glu Phe Lys Pro Thr Leu Pro Gly Arg Gly Trp Leu Val Ser Pro  
 245 250 255  
 Phe Gly Ala Asn Pro Trp Trp Trp Ser Val Ala Ala Leu Pro Ala  
 260 265 270  
 Leu Leu Leu Ser Ile Leu Ile Phe Met Asp Gln Gln Ile Thr Ala Val  
 275 280 285  
 Ile Leu Asn Arg Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His  
 290 295 300  
 Leu Asp Leu Phe Trp Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu  
 305 310 315 320  
 Gly Leu Pro Trp Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met  
 325 330 335  
 Asp Ser Leu Arg Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro  
 340 345 350  
 Asn Phe Leu Gly Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val Phe  
 355 360 365  
 Ile Leu Thr Gly Ala Ser Ile Phe Leu Ala Pro Val Leu Lys Phe Ile  
 370 375 380  
 Pro Met Pro Val Leu Tyr Gly Ile Phe Leu Tyr Met Gly Val Ala Ala  
 385 390 395 400  
 Leu Ser Ser Ile Gln Phe Thr Asn Arg Val Lys Leu Leu Leu Met Pro  
 405 410 415  
 Ala Lys His Gln Pro Asp Leu Leu Leu Leu Arg His Val Pro Leu Thr  
 420 425 430  
 Arg Val His Leu Phe Thr Ala Ile Ser Phe Ala Cys Leu Gly Leu Leu  
 435 440 445  
 Trp Ile Ile Lys Ser Thr Pro Ala Ala Ile Ile Phe Pro Leu Met Leu  
 450 455 460  
 Leu Gly Leu Val Gly Val Arg Lys Ala Leu Glu Arg Val Phe Ser Pro  
 465 470 475 480  
 Gln Glu Leu Leu Trp Leu Asp Glu Leu Met Pro Glu Glu Glu Arg Ser  
 485 490 495  
 Ile Pro Glu Lys Gly Leu Glu Pro Glu His Ser Phe Ser Gly Ser Asp  
 500 505 510  
 Ser Glu Asp Ser Glu Leu Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn  
 515 520 525  
 Ile Ser Val Asn Xaa Leu Glu Xaa Glu Phe Val Arg Glu Ile Arg Gly  
 530 535 540  
 Pro Ala Val Pro Arg Leu Thr Ser Ala Glu Asp Arg His Arg His Gly  
 545 550 555 560  
 Pro His Ala His Ser Pro Glu Leu Gln Arg Thr Gly Arg Asp Tyr Ser  
 565 570 575  
 Leu Asp Tyr Leu Pro Phe Arg Leu Trp Val Gly Ile Trp Val Ala Thr  
 580 585 590  
 Phe Cys Leu Val Leu Val Ala Thr Glu Ala Ser Val Leu Val Arg Tyr  
 595 600 605  
 Phe Thr Arg Phe Thr Glu Glu Gly Phe Cys Ala Leu Ile Ser Leu Ile  
 610 615 620  
 Phe Ile Tyr Asp Ala Val Gly Lys Met Leu Asn Leu Thr His Thr Tyr  
 625 630 635 640  
 Pro Ile Gln Lys Pro Gly Ser Ser Ala Tyr Gly Cys Leu Cys Gln Tyr  
 645 650 655  
 Pro Gly Pro Gly Gly Asn Glu Ser Gln Trp Ile Arg Thr Arg Pro Lys  
 660 665 670  
 Asp Arg Asp Asp Ile Val Ser Met Asp Leu Gly Leu Ile Asn Ala Ser  
 675 680 685  
 Leu Leu Pro Pro Pro Glu Cys Thr Arg Gln Gly Gly His Pro Arg Gly  
 690 695 700  
 Pro Gly Cys His Thr Val Pro Asp Ile Ala Phe Phe Ser Leu Leu Leu  
 705 710 715 720  
 Phe Leu Thr Ser Phe Phe Phe Ala Met Ala Leu Lys Cys Val Lys Thr  
 725 730 735

```

Ser Arg Phe Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser
      740      745      750
Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly
      755      760      765
Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu
      770      775      780
Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp
      785      790      795      800
Trp Ser Val Ala Ala Ala Leu Pro Ala Leu Leu Ser Ile Leu Ile
      805      810      815
Phe Met Asp Gln Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr
      820      825      830
Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala
      835      840      845
Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser
      850      855      860
Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser
      865      870      875      880
Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu
      885      890      895
Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile
      900      905      910
Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly
      915      920      925
Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr
      930      935      940
Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro
      945      950      955      960
Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser
      965      970      975
His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr
      980      985      990
Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val
      995      1000      1005
Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu
      1010      1015      1020
Asp Glu Leu Met Pro Glu Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu
      1025      1030      1035      1040
Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu
      1045      1050      1055
Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn
      1060      1065      1070

```

&lt;210&gt; 1100

&lt;211&gt; 875

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(875)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1100

```

Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
  1              5              10              15
Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
      20              25              30
Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

```

35					40					45					
Asp	Val	Glu	Gln	Val	Thr	Leu	Ala	Leu	Gly	Ala	Gly	Ala	Asp	Lys	Asp
50						55					60				
Gly	Thr	Leu	Leu	Leu	Glu	Gly	Gly	Gly	Arg	Asp	Gly	Glu	Gln	Arg	Arg
65					70					75					80
Thr	Pro	Gln	Gly	Ile	Gly	Leu	Leu	Ala	Lys	Thr	Pro	Leu	Ser	Arg	Pro
				85					90					95	
Val	Lys	Arg	Asn	Asn	Ala	Lys	Tyr	Arg	Arg	Ile	Gln	Thr	Leu	Ile	Tyr
			100					105						110	
Asp	Ala	Leu	Glu	Arg	Pro	Arg	Gly	Trp	Ala	Leu	Leu	Tyr	His	Ala	Leu
		115					120					125			
Val	Phe	Leu	Ile	Val	Leu	Gly	Cys	Leu	Ile	Leu	Ala	Val	Leu	Thr	Thr
	130					135					140				
Phe	Lys	Glu	Tyr	Glu	Thr	Val	Ser	Gly	Asp	Trp	Leu	Leu	Leu	Leu	Glu
145					150				155						160
Thr	Phe	Ala	Ile	Phe	Ile	Phe	Gly	Ala	Glu	Phe	Ala	Leu	Arg	Ile	Trp
				165					170					175	
Ala	Ala	Gly	Cys	Cys	Arg	Tyr	Lys	Gly	Trp	Arg	Gly	Arg	Leu	Lys	
			180				185						190		
Phe	Ala	Arg	Lys	Pro	Leu	Cys	Met	Leu	Asp	Ile	Phe	Val	Leu	Ile	Ala
		195					200					205			
Ser	Val	Pro	Val	Val	Ala	Val	Gly	Asn	Gln	Gly	Asn	Val	Leu	Ala	Thr
	210					215					220				
Ser	Leu	Arg	Ser	Leu	Arg	Phe	Leu	Gln	Ile	Leu	Arg	Met	Leu	Arg	Asp
225					230					235					240
Gly	Pro	Gly	Glu	Gly	Gly	Thr	Trp	Lys	Leu	Leu	Gly	Ser	Ala	Ile	Cys
				245					250					255	
Ala	His	Ser	Lys	Glu	Leu	Ile	Thr	Ala	Trp	Tyr	Ile	Gly	Phe	Leu	Thr
			260						265					270	
Leu	Ile	Leu	Ser	Ser	Phe	Leu	Val	Tyr	Leu	Val	Glu	Lys	Asp	Val	Pro
	275						280					285			
Glu	Val	Asp	Ala	Gln	Gly	Glu	Glu	Met	Lys	Glu	Glu	Phe	Glu	Thr	Tyr
	290					295					300				
Ala	Asp	Ala	Leu	Trp	Trp	Gly	Leu	Ile	Thr	Leu	Ala	Thr	Ile	Gly	Tyr
305					310					315					320
Gly	Asp	Lys	Thr	Pro	Lys	Thr	Trp	Glu	Gly	Arg	Leu	Ile	Ala	Ala	Thr
				325					330					335	
Phe	Ser	Leu	Ile	Gly	Val	Ser	Phe	Phe	Ala	Leu	Pro	Ala	Gly	Ile	Leu
			340					345						350	
Gly	Ser	Gly	Leu	Ala	Leu	Lys	Val	Gln	Glu	Gln	His	Arg	Gln	Lys	His
		355					360					365			
Phe	Glu	Lys	Arg	Arg	Lys	Pro	Ala	Ala	Glu	Leu	Ile	Gln	Ala	Ala	Trp
	370					375						380			
Arg	Tyr	Tyr	Ala	Thr	Asn	Pro									

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545          550          555          560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly
          565          570          575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe
          580          585          590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg
          595          600          605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe
          610          615          620
Val Lys Ser Leu Lys Gly Gln Val Gln Gly Leu Gly Arg Lys Leu Asp
          625          630          635
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln
          645          650          655
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala
          660          665          670
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys
          675          680          685
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln
          690          695          700
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro
          705          710          715
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr
          725          730          735
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro
          740          745          750
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp
          755          760          765
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser
          770          775          780
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His
          785          790          795
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg
          805          810          815
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu
          820          825          830
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe
          835          840          845
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser
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Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile
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&lt;210&gt; 1101

&lt;211&gt; 3530

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(3530)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1101

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Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser
          35          40          45

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 Ala Thr Gly Gly Ala Val Leu Gly Arg His Leu Val Ser Arg Ile Ile  
 100 105 110  
 Ile Ala Lys Ser Asp Ser Pro Phe Gly Val Ile Arg Phe Leu Asn Gln  
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 Ser Lys Ile Ser Ile Ala Asn Pro Asn Ser Thr Met Ile Leu Ser Leu  
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 Val Leu Glu Arg Thr Gly Gly Leu Leu Gly Glu Ile Gln Val Asn Trp  
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 Glu Thr Val Gly Pro Asn Ser Gln Glu Ala Leu Leu Pro Gln Asn Arg  
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 Asp Ile Ala Asp Pro Val Ser Gly Leu Phe Tyr Phe Gly Glu Gly Glu  
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 Gly Gly Val Arg Thr Ile Ile Leu Thr Ile Tyr Pro His Glu Glu Ile  
 195 200 205  
 Glu Val Glu Glu Thr Phe Ile Ile Lys Leu His Leu Val Lys Gly Glu  
 210 215 220  
 Ala Lys Leu Asp Ser Arg Ala Lys Asp Val Thr Leu Thr Ile Gln Glu  
 225 230 235 240  
 Phe Gly Asp Pro Asn Gly Val Val Gln Phe Ala Pro Glu Thr Leu Ser  
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 Lys Lys Thr Tyr Ser Glu Pro Leu Ala Leu Glu Gly Pro Leu Leu Ile  
 260 265 270  
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 275 280 285  
 Tyr Trp Glu Leu Ser Ser Glu Phe Asp Ile Thr Glu Asp Phe Leu Ser  
 290 295 300  
 Thr Ser Gly Phe Phe Thr Ile Ala Asp Gly Glu Ser Glu Ala Ser Phe  
 305 310 315 320  
 Asp Val His Leu Leu Pro Asp Glu Val Pro Glu Ile Glu Glu Asp Tyr  
 325 330 335  
 Val Ile Gln Leu Val Ser Val Glu Gly Gly Ala Glu Leu Asp Leu Glu  
 340 345 350  
 Lys Ser Ile Thr Trp Phe Ser Val Tyr Ala Asn Asp Asp Pro His Gly  
 355 360 365  
 Val Phe Ala Leu Tyr Ser Asp Arg Gln Ser Ile Leu Ile Gly Gln Asn  
 370 375 380  
 Leu Ile Arg Ser Ile Gln Ile Asn Ile Thr Arg Leu Ala Gly Thr Phe  
 385 390 395 400  
 Gly Asp Val Ala Val Gly Leu Arg Ile Ser Ser Asp His Lys Glu Gln  
 405 410 415  
 Pro Ile Val Thr Glu Asn Ala Glu Arg Gln Leu Val Val Lys Asp Gly  
 420 425 430  
 Ala Thr Tyr Lys Val Asp Val Val Pro Ile Lys Asn Gln Val Phe Leu  
 435 440 445  
 Ser Leu Gly Ser Asn Phe Thr Leu Gln Leu Val Thr Val Met Leu Val  
 450 455 460  
 Gly Gly Arg Phe Tyr Gly Met Pro Thr Ile Leu Gln Glu Ala Lys Ser  
 465 470 475 480  
 Ala Val Leu Pro Val Ser Glu Lys Ala Ala Asn Ser Gln Val Gly Phe  
 485 490 495  
 Glu Ser Thr Ala Phe Gln Leu Met Asn Ile Thr Ala Gly Thr Ser His  
 500 505 510  
 Val Met Ile Ser Arg Arg Gly Thr Tyr Gly Ala Leu Ser Val Ala Trp  
 515 520 525  
 Thr Thr Gly Tyr Ala Pro Gly Leu Glu Ile Pro Glu Phe Ile Val Val  
 530 535 540  
 Gly Asn Met Thr Pro Thr Leu Gly Ser Leu Ser Phe Ser His Gly Glu  
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Gln Arg Lys Gly Val Phe Leu Trp Thr Phe Pro Ser Pro Gly Trp Pro  
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 Glu Ala Phe Val Leu His Leu Ser Gly Val Gln Ser Ser Ala Pro Gly  
 580 585 590  
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 595 600 605  
 Gly Val Phe Gln Phe Ser Thr Ser Arg Asn Ile Ile Val Ser Glu  
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 Asp Thr Gln Met Ile Arg Leu His Val Gln Arg Leu Phe Gly Phe His  
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 Ser Asp Leu Ile Lys Val Ser Tyr Gln Thr Ala Gly Ser Ala Lys  
 645 650 655  
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 Lys Phe Gln Thr Glu Val Asp Phe Glu Ile Thr Ile Ile Asn Asp Gln  
 675 680 685  
 Leu Ser Glu Ile Glu Glu Phe Phe Tyr Ile Asn Leu Thr Ser Val Glu  
 690 695 700  
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 Ala Gly Met Asp Ile Ser Phe Pro Glu Thr Thr Val Ala Val Ala Val  
 740 745 750  
 Asp Thr Thr Leu Ile Pro Val Glu Thr Glu Ser Thr Thr Tyr Leu Ser  
 755 760 765  
 Thr Ser Lys Thr Thr Thr Ile Leu Gln Pro Thr Asn Val Val Ala Ile  
 770 775 780  
 Val Thr Glu Ala Thr Gly Val Ser Ala Ile Pro Glu Lys Leu Val Thr  
 785 790 795 800  
 Leu His Gly Thr Pro Ala Val Ser Glu Lys Pro Asp Val Ala Thr Val  
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 Thr Ala Asn Val Ser Ile His Gly Thr Phe Ser Leu Gly Pro Ser Ile  
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 Val Tyr Ile Glu Glu Glu Met Lys Asn Gly Thr Phe Asn Thr Ala Glu  
 835 840 845  
 Val Leu Ile Arg Arg Thr Gly Gly Phe Thr Gly Asn Val Ser Ile Thr  
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 Val Lys Thr Phe Gly Glu Arg Cys Ala Gln Met Glu Pro Asn Ala Leu  
 865 870 875 880  
 Pro Phe Arg Gly Ile Tyr Gly Ile Ser Asn Leu Thr Trp Ala Val Glu  
 885 890 895  
 Glu Glu Asp Phe Glu Glu Gln Thr Leu Thr Leu Ile Phe Leu Asp Gly  
 900 905 910  
 Glu Arg Glu Arg Lys Val Ser Val Gln Ile Leu Asp Asp Asp Glu Pro  
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 Glu Gly Gln Glu Phe Phe Tyr Val Phe Leu Thr Asn Pro Gln Gly Gly  
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 945 950 955 960  
 Met Val Ile Ile Thr Gly Ser Asp Leu His Asn Gly Ile Ile Gly Phe  
 965 970 975  
 Ser Glu Glu Ser Gln Ser Gly Leu Glu Leu Arg Glu Gly Ala Val Met  
 980 985 990  
 Arg Arg Leu His Leu Ile Val Thr Arg Gln Pro Asn Arg Ala Phe Glu  
 995 1000 1005  
 Asp Val Lys Val Phe Trp Arg Val Thr Leu Asn Lys Thr Val Val Val  
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 Gly Thr Thr Thr Cys Thr Met Gly Gln Thr Lys Cys Phe Ile Ser Ile  
 1045 1050 1055  
 Glu Leu Lys Pro Glu Lys Val Pro Gln Val Glu Val Tyr Phe Phe Val  
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Glu Leu Tyr Glu Ala Thr Ala Gly Ala Ala Ile Asn Asn Ser Ala Arg  
 1075 1080 1085  
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val  
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 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly  
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 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr  
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 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp  
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 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln  
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 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp  
 1235 1240 1245  
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu  
 1250 1255 1260  
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile  
 1265 1270 1275 1280  
 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu  
 1285 1290 1295  
 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr  
 1300 1305 1310  
 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser  
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 1460 1465 1470  
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr  
 1475 1480 1485  
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg  
 1490 1495 1500  
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe  
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 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys  
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 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala  
 1540 1545 1550  
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser  
 1555 1560 1565  
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His  
 1570 1575 1580



Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn  
 1585 1590 1595 1600  
 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr  
 1605 1610 1615  
 Leu Leu Phe Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile  
 1620 1625 1630  
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln  
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 1765 1770 1775  
 Leu His Gly Ser Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe  
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 1795 1800 1805  
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 1955 1960 1965  
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala  
 1970 1975 1980  
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 1985 1990 1995 2000  
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp  
 2005 2010 2015  
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp  
 2020 2025 2030  
 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val  
 2035 2040 2045  
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly  
 2050 2055 2060  
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr  
 2065 2070 2075 2080  
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln  
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile  
 2100 2105 2110  
 Thr Arg Leu Ala Gly Thr Phe Gly Asp Val Ala Val Gly Leu Arg Ile  
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 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg  
 2130 2135 2140  
 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro  
 2145 2150 2155 2160  
 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln  
 2165 2170 2175  
 Leu Val Thr Val Met Leu Val Gly Gly Arg Phe Tyr Gly Met Pro Thr  
 2180 2185 2190  
 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala  
 2195 2200 2205  
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 Leu Ser Phe Ser His Gly Glu Gln Arg Lys Gly Val Phe Leu Trp Thr  
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 2340 2345 2350  
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 2755 2760 2765  
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 3045 3050 3055  
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<212> Amino acid
<213> Homo sapiens
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<223> X = any amino acid or stop code
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 35 40 45  
 Gln Ala Ala Ala Ser Leu Leu Ala Pro Met Asp Val Gly Glu Glu Pro  
 50 55 60  
 Leu Glu Lys Ala Ala Arg Ala Arg Thr Ala Lys Asp Pro Asn Thr Tyr  
 65 70 75 80  
 Lys Val Leu Ser Leu Val Leu Ser Val Cys Val Leu Thr Thr Ile Leu  
 85 90 95  
 Gly Cys Ile Phe Gly Leu Lys Pro Ser Cys Ala Lys Glu Val Lys Ser  
 100 105 110  
 Cys Lys Gly Arg Cys Phe Glu Arg Thr Phe Gly Asn Cys Arg Cys Asp  
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 Ala Ala Cys Val Glu Leu Gly Asn Cys Cys Leu Gly Leu Pro Gly Gly  
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 Thr Cys Ile Glu Pro Glu His Ile Trp Thr Cys Asn Lys Phe Arg Cys  
 145 150 155 160  
 Gly Glu Lys Arg Leu Thr Arg Ser Leu Cys Ala Cys Ser Asp Asp Cys  
 165 170 175  
 Lys Asp Arg Gly Asp Cys Leu Pro Ser Asn Leu Gln Phe Leu Cys Val  
 180 185 190  
 Gln Gly Glu Lys Ser Trp Gly Arg Lys Asn Pro Cys Glu Ser His Leu  
 195 200 205  
 Met Glu Pro Gln Cys Pro Ala Gly Phe Glu Thr Pro Ser Leu Pro Leu  
 210 215 220  
 Leu Ile Phe Ser Leu Asp Gly Phe Arg Ala Glu Tyr Leu His Thr Trp  
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 Gly Gly Leu Leu Pro Val Ile Ser Lys Leu Lys Lys Cys Gly Thr Tyr  
 245 250 255  
 Thr Lys Asn Met Arg Pro Val Tyr Pro Thr Lys Thr Phe Pro Asn His  
 260 265 270  
 Tyr Ser Ile Val Thr Gly Leu Tyr Pro Glu Ser His Gly Ile Ile Asn  
 275 280 285  
 Asn Lys Met Tyr Asp Pro Lys Met Asn Ala Ser Phe Ser Leu Lys Ser  
 290 295 300  
 Lys Glu Lys Phe Asn Pro Glu Trp Tyr Lys Gly Glu Pro Ile Trp Val  
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 Ser Asp Val Glu Ile Asn Gly Ile Phe Pro Asp Ile Tyr Lys Met Tyr  
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 Asn Gly Ser Val Pro Phe Glu Glu Arg Ile Leu Ala Val Leu Gln Trp  
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 385 390 395 400  
 Val Ile Lys Ala Leu Gln Arg Val Asp Gly Met Val Gly Met Leu Met  
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 420 425 430  
 Ile Ser Asp His Gly Met Glu Gln Gly Ser Cys Lys Lys Tyr Ile Tyr  
 435 440 445  
 Leu Asn Lys Tyr Leu Gly Asp Val Lys Asn Ile Lys Val Ile Tyr Gly  
 450 455 460  
 Pro Ala Ala Arg Leu Arg Pro Ser Asp Val Pro Asp Lys Tyr Tyr Ser

465 470 475 480  
 Phe Asn Tyr Glu Gly Ile Ala Arg Asn Leu Ser Cys Arg Glu Pro Asn  
 485 490 495  
 Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His  
 500 505 510  
 Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro  
 515 520 525  
 Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser  
 530 535 540  
 Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe  
 545 550 555 560  
 Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe  
 565 570 575  
 Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr  
 580 585 590  
 Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys  
 595 600 605  
 Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val  
 610 615 620  
 Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys  
 625 630 635 640  
 Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu  
 645 650 655  
 Thr Val Ala Glu Glu Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly  
 660 665 670  
 Arg Pro Arg Val Leu Gln Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln  
 675 680 685  
 His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp  
 690 695 700  
 Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe  
 705 710 715 720  
 Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His  
 725 730 735  
 Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu  
 740 745 750  
 Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala  
 755 760 765  
 Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile  
 770 775 780  
 Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg  
 785 790 795 800  
 Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp  
 805 810 815  
 Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His  
 820 825 830  
 Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr  
 835 840 845  
 Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys  
 850 855 860  
 Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp  
 865 870 875 880  
 Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val  
 885 890 895  
 Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa  
 900 905 910  
 Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val  
 915 920 925  
 Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu  
 930 935 940  
 Asp  
 945

<211> 217  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1103  
 Thr Val Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro  
 1 5 10 15  
 Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg  
 20 25 30  
 Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg  
 35 40 45  
 Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn  
 50 55 60  
 Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn  
 65 70 75 80  
 Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr  
 85 90 95  
 Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu  
 100 105 110  
 Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His  
 115 120 125  
 Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser  
 130 135 140  
 Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala  
 145 150 155 160  
 Gly Gly Trp Gly Trp Phe Phe Asn Lys His Ala Leu Gln Arg Ala Pro  
 165 170 175  
 Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu  
 180 185 190  
 Ile Asn Tyr Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu  
 195 200 205  
 Ala Ala Pro Pro Asn Lys His Arg Arg  
 210 215 217

<210> 1104  
 <211> 436  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1104  
 His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val  
 1 5 10 15  
 Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr  
 20 25 30  
 Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met  
 35 40 45  
 Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro  
 50 55 60  
 Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp  
 65 70 75 80  
 Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val  
 85 90 95  
 Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly  
 100 105 110  
 Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

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115      120      125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly
130      135      140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala
145      150      155      160
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu
165      170      175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Phe Ala
180      185      190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu
195      200      205
His Asp Thr His Asp Ala Leu Asn Val Val Val Gln Leu Glu Lys Gln
210      215      220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp
225      230      235      240
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu
245      250      255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His
260      265      270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu
275      280      285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp
290      295      300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr
305      310      315      320
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly
325      330      335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile
340      345      350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala
355      360      365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser
370      375      380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp
385      390      395      400
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala
405      410      415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser
420      425      430
Glu Ala Glu Cys
435 436

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&lt;210&gt; 1105

&lt;211&gt; 113

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1105

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Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Gln Arg Arg His Gln
1      5      10      15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg
20      25      30
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly
35      40      45
Cys Glu Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu
50      55      60
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala
65      70      75      80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu

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			85				90				95				
Ser	Arg	Ile	Arg	Gly	Met	Arg	Lys	Leu	Ser	Pro	Pro	Gln	Lys	Lys	Ser
			100					105					110		
Val															
113															

<210> 1106  
 <211> 464  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1106  
 Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala  
 1 5 10 15  
 Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu  
 20 25 30  
 Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile  
 35 40 45  
 Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn  
 50 55 60  
 Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met  
 65 70 75 80  
 Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu  
 85 90 95  
 Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro  
 100 105 110  
 Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys  
 115 120 125  
 Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu  
 130 135 140  
 Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu  
 145 150 155 160  
 Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg  
 165 170 175  
 Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp  
 180 185 190  
 Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp  
 195 200 205  
 Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser  
 210 215 220  
 Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr  
 225 230 235 240  
 Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln  
 245 250 255  
 Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser  
 260 265 270  
 Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr  
 275 280 285  
 Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp  
 290 295 300  
 Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln  
 305 310 315 320  
 Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro  
 325 330 335  
 Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser  
 340 345 350  
 Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro  
 355 360 365  
 Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu

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370                               375                               380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp
385                               390                               395
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp
                               405                               410                               415
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg
420                               425                               430
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys
435                               440                               445
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr
450                               455                               460                               464

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<210> 1107  
 <211> 153  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1107
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr
1                               5                               10                               15
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val
20                               25                               30
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn
35                               40                               45
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly
50                               55                               60
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met
65                               70                               75                               80
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr
85                               90                               95
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile
100                               105                               110
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu
115                               120                               125
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe
130                               135                               140
Met Tyr Trp Ser Leu Arg Gly Gly Ser
145                               150                               153

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<210> 1108  
 <211> 506  
 <212> Amino acid  
 <213> Homo sapiens

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<400> 1108
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly
1                               5                               10                               15
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly
20                               25                               30
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser
35                               40                               45
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly

```

50	55	60
Pro Asp Pro Leu Asp Thr Arg Arg Leu Gln Gly Phe Arg Leu Glu Glu		
65	70	75
Tyr Leu Ile Gly Gln Ser Ile Gly Lys Gly Cys Ser Ala Ala Val Tyr		80
	85	90
Glu Ala Thr Met Pro Thr Leu Pro Gln Asn Leu Glu Val Thr Lys Ser		95
	100	105
Thr Gly Leu Leu Pro Gly Arg Gly Pro Gly Thr Ser Ala Pro Gly Glu		110
	115	120
Gly Gln Glu Arg Ala Pro Gly Ala Pro Ala Phe Pro Leu Ala Ile Lys		125
	130	135
Met Met Trp Asn Ile Ser Ala Gly Ser Ser Ser Glu Ala Ile Leu Asn		140
	145	150
Thr Met Ser Gln Glu Leu Val Pro Ala Ser Arg Val Ala Leu Ala Gly		155
	160	165
Glu Tyr Gly Ala Val Thr Tyr Arg Lys Ser Lys Arg Gly Pro Lys Gln		170
	175	180
Leu Ala Pro His Pro Asn Ile Ile Arg Val Leu Arg Ala Phe Thr Ser		185
	190	195
Ser Val Pro Leu Leu Pro Gly Ala Leu Val Asp Tyr Pro Asp Val Leu		200
	205	210
Pro Ser Arg Leu His Pro Glu Gly Leu Gly His Gly Arg Thr Leu Phe		215
	220	225
Leu Val Met Lys Asn Tyr Pro Cys Thr Leu Arg Gln Tyr Leu Cys Val		230
	235	240
Asn Thr Pro Ser Pro Arg Leu Ala Ala Met Met Leu Leu Gln Leu Leu		245
	250	255
Glu Gly Val Asp His Leu Val Gln Gln Gly Ile Ala His Arg Asp Leu		260
	265	270
Lys Ser Asp Asn Ile Leu Val Glu Leu Asp Pro Asp Gly Cys Pro Trp		275
	280	285
Leu Val Ile Ala Asp Phe Gly Cys Cys Leu Ala Asp Glu Ser Ile Gly		290
	295	300
Leu Gln Leu Pro Phe Ser Ser Trp Tyr Val Asp Arg Gly Gly Asn Gly		305
	310	315
Cys Leu Met Ala Pro Glu Val Ser Thr Ala Arg Pro Gly Pro Arg Ala		320
	325	330
Val Ile Asp Tyr Ser Lys Ala Asp Ala Trp Ala Val Gly Ala Ile Ala		335
	340	345
Tyr Glu Ile Phe Gly Leu Val Asn Pro Phe Tyr Gly Gln Gly Lys Ala		350
	355	360
His Leu Glu Ser Arg Ser Tyr Gln Glu Ala Gln Leu Pro Ala Leu Pro		365
	370	375
Glu Ser Val Pro Pro Asp Val Arg Gln Leu Val Arg Ala Leu Leu Gln		380
	385	390
Arg Glu Ala Ser Lys Arg Pro Ser Ala Arg Val Ala Ala Asn Val Leu		395
	400	405
His Leu Ser Leu Trp Gly Glu His Ile Leu Ala Leu Lys Asn Leu Lys		410
	415	420
Leu Asp Lys Met Val Gly Trp Leu Leu Gln Gln Ser Ala Ala Thr Leu		425
	430	435
Leu Ala Asn Arg Leu Thr Glu Lys Cys Cys Val Glu Thr Lys Met Lys		440
	445	450
Met Leu Phe Leu Ala Asn Leu Glu Cys Glu Thr Leu Cys Gln Ala Ala		455
	460	465
Leu Leu Leu Cys Ser Trp Arg Ala Ala Leu		470
	475	480
	485	490
	495	500
	505	506

&lt;210&gt; 1109

&lt;211&gt; 382

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1109

Arg	Pro	Leu	Leu	Arg	Leu	Ala	Glu	Leu	Pro	Asp	His	Cys	Tyr	Arg	Met
1				5					10					15	
Asn	Ser	Ser	Pro	Ala	Gly	Thr	Pro	Ser	Pro	Gln	Pro	Ser	Arg	Ala	Asn
			20					25					30		
Gly	Asn	Ile	Asn	Leu	Gly	Pro	Ser	Ala	Asn	Pro	Asn	Ala	Gln	Pro	Thr
	35					40						45			
Asp	Phe	Asp	Phe	Leu	Lys	Val	Ile	Gly	Lys	Gly	Asn	Tyr	Gly	Lys	Val
	50					55					60				
Leu	Leu	Ala	Lys	Arg	Lys	Ser	Asp	Gly	Ala	Phe	Tyr	Ala	Val	Lys	Val
	65				70					75				80	
Leu	Gln	Lys	Lys	Ser	Ile	Leu	Lys	Lys	Lys	Glu	Gln	Ser	His	Ile	Met
				85					90					95	
Ala	Glu	Arg	Ser	Val	Leu	Leu	Lys	Asn	Val	Arg	His	Pro	Phe	Leu	Val
			100					105					110		
Gly	Leu	Arg	Tyr	Ser	Phe	Gln	Thr	Pro	Glu	Lys	Leu	Tyr	Phe	Val	Leu
	115					120						125			
Asp	Tyr	Val	Asn	Gly	Gly	Glu	Leu	Phe	Phe	His	Leu	Gln	Arg	Glu	Arg
	130				135						140				
Arg	Phe	Leu	Glu	Pro	Arg	Ala	Arg	Phe	Tyr	Ala	Ala	Glu	Val	Ala	Ser
	145				150					155				160	
Ala	Ile	Gly	Tyr	Leu	His	Ser	Leu	Asn	Ile	Ile	Tyr	Arg	Asp	Leu	Lys
				165					170					175	
Pro	Glu	Asn	Ile	Leu	Leu	Asp	Cys	Gln	Gly	His	Val	Val	Leu	Thr	Asp
	180							185					190		
Phe	Gly	Leu	Cys	Lys	Glu	Gly	Val	Glu	Pro	Glu	Asp	Thr	Thr	Ser	Thr
	195					200						205			
Phe	Cys	Gly	Thr	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Val	Leu	Arg	Lys	Glu
	210				215						220				
Pro	Tyr	Asp	Arg	Ala	Val	Asp	Trp	Trp	Cys	Leu	Gly	Ala	Val	Leu	Tyr
	225				230					235				240	
Glu	Met	Leu	His	Gly	Leu	Pro	Pro	Phe	Tyr	Ser	Gln	Asp	Val	Ser	Gln
				245					250					255	
Met	Tyr	Glu	Asn	Ile	Leu	His	Gln	Pro	Leu	Gln	Ile	Pro	Gly	Gly	Arg
	260						265						270		
Thr	Val	Ala	Ala	Cys	Asp	Leu	Leu	Gln	Ser	Leu	Leu	His	Lys	Asp	Gln
	275					280						285			
Arg	Gln	Arg	Leu	Gly	Ser	Lys	Ala	Asp	Phe	Leu	Glu	Ile	Lys	Asn	His
	290					295					300				
Val	Phe	Phe	Ser	Pro	Ile	Asn	Trp	Asp	Asp	Leu	Tyr	His	Lys	Arg	Leu
	305				310					315				320	
Thr	Pro	Pro	Phe	Asn	Pro	Asn	Val	Thr	Gly	Pro	Ala	Asp	Leu	Lys	His
				325						330				335	
Phe	Asp	Pro	Glu	Phe	Thr	Gln	Glu	Ala	Val	Ser	Lys	Ser	Ile	Gly	Cys
	340					345							350		
Thr	Pro	Asp	Thr	Val	Ala	Ser	Ser	Ser	Gly	Ala	Ser	Ser	Ala	Phe	Leu
	355					360						365			
Gly	Phe	Ser	Tyr	Ala	Pro	Glu	Asp	Asp	Asp	Ile	Leu	Asp	Cys		
	370					375					380		382		

&lt;210&gt; 1110

&lt;211&gt; 535

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1110  
 Arg Pro Gln Thr Leu Lys Gly His Gln Glu Lys Ile Arg Gln Arg Gln  
 1 5 10 15  
 Ser Ile Leu Pro Pro Gln Gly Pro Ala Pro Ile Pro Phe Gln His  
 20 25 30  
 Arg Gly Gly Asp Ser Pro Glu Ala Lys Asn Arg Val Gly Pro Gln Val  
 35 40 45  
 Pro Leu Ser Glu Pro Gly Phe Arg Arg Arg Glu Ser Gln Glu Glu Pro  
 50 55 60  
 Arg Ala Val Leu Ala Gln Lys Ile Glu Lys Glu Thr Gln Ile Leu Asn  
 65 70 75 80  
 Cys Ala Leu Asp Asp Ile Glu Trp Phe Val Ala Arg Leu Gln Lys Ala  
 85 90 95  
 Ala Glu Ala Phe Lys Gln Leu Asn Gln Arg Lys Lys Gly Lys Lys Lys  
 100 105 110  
 Gly Lys Lys Ala Pro Ala Glu Gly Val Leu Thr Leu Arg Ala Arg Pro  
 115 120 125  
 Pro Ser Glu Gly Glu Phe Ile Asp Cys Phe Gln Lys Ile Lys Leu Ala  
 130 135 140  
 Ile Asn Leu Leu Ala Lys Leu Gln Lys His Ile Gln Asn Pro Ser Ala  
 145 150 155 160  
 Ala Glu Leu Val His Phe Leu Phe Gly Pro Leu Asp Leu Ile Val Asn  
 165 170 175  
 Thr Cys Ser Gly Pro Asp Ile Ala Arg Ser Val Ser Cys Pro Leu Leu  
 180 185 190  
 Ser Arg Asp Ala Val Asp Phe Leu Arg Gly His Leu Val Pro Lys Glu  
 195 200 205  
 Met Ser Leu Trp Glu Ser Leu Gly Glu Ser Trp Met Arg Pro Arg Ser  
 210 215 220  
 Glu Trp Pro Arg Glu Pro Gln Val Pro Leu Tyr Val Pro Lys Phe His  
 225 230 235 240  
 Ser Gly Trp Glu Pro Pro Val Asp Val Leu Gln Glu Ala Pro Trp Glu  
 245 250 255  
 Val Glu Gly Leu Ala Ser Ala Pro Ile Glu Glu Val Ser Pro Val Ser  
 260 265 270  
 Arg Gln Ser Ile Arg Asn Ser Gln Lys His Ser Pro Thr Ser Glu Pro  
 275 280 285  
 Thr Pro Pro Gly Asp Ala Leu Pro Pro Val Ser Ser Pro His Thr His  
 290 295 300  
 Arg Gly Tyr Gln Pro Thr Pro Ala Met Ala Lys Tyr Val Lys Ile Leu  
 305 310 315 320  
 Tyr Asp Phe Thr Ala Arg Asn Ala Asn Glu Leu Ser Val Leu Lys Asp  
 325 330 335  
 Glu Val Leu Glu Val Leu Glu Asp Gly Arg Gln Trp Trp Lys Leu Arg  
 340 345 350  
 Ser Arg Ser Gly Gln Ala Gly Tyr Val Pro Cys Asn Ile Leu Gly Glu  
 355 360 365  
 Ala Arg Pro Glu Asp Ala Gly Ala Pro Phe Glu Gln Ala Gly Gln Lys  
 370 375 380  
 Tyr Trp Gly Pro Ala Ser Pro Thr His Lys Leu Pro Pro Ser Phe Pro  
 385 390 395 400  
 Gly Asn Lys Asp Glu Leu Met Gln His Met Asp Glu Val Asn Asp Glu  
 405 410 415  
 Leu Ile Arg Lys Ile Ser Asn Ile Arg Ala Gln Pro Gln Arg His Phe  
 420 425 430  
 Arg Val Glu Arg Ser Gln Pro Val Ser Gln Pro Leu Thr Tyr Glu Ser  
 435 440 445  
 Gly Pro Asp Glu Val Arg Ala Trp Leu Glu Ala Lys Ala Phe Ser Pro  
 450 455 460  
 Arg Ile Val Glu Asn Leu Gly Ile Leu Thr Gly Pro Gln Leu Phe Ser  
 465 470 475 480  
 Leu Asn Lys Glu Glu Leu Lys Lys Val Cys Gly Glu Glu Gly Val Arg  
 485 490 495  
 Val Tyr Ser Gln Leu Thr Met Gln Lys Ala Phe Leu Glu Lys Gln Gln

	500		505		510
Ser Gly Ser	Glu Leu Glu Glu	Leu Met Asn Lys Phe	His Ser Met Asn		
	515	520	525		
Gln Arg Arg Gly Glu Asp Ser					
530	535				

<210> 1111  
 <211> 346  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(346)  
 <223> X = any amino acid or stop code

<400> 1111

Ala Trp His	Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu	
1	5	10 15
Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Ala Thr Val Val		
	20	25 30
Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu		
	35	40 45
Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys		
	50	55 60
Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr		
65	70	75 80
Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala		
	85	90 95
Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe		
	100	105 110
Gly Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser		
	115	120 125
Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly		
	130	135 140
Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu		
145	150	155 160
Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly		
	165	170 175
Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu		
	180	185 190
Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile		
	195	200 205
Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr		
	210	215 220
Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro		
225	230	235 240
Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly		
	245	250 255
Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Ala		
	260	265 270
Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His		
	275	280 285
Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser		
	290	295 300
Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu		
305	310	315 320
Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu Xaa Thr Arg		
	325	330 335

Gln Lys Val Gly Phe Cys Ile Arg His Leu  
 340 345 346

<210> 1112  
 <211> 647  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1112  
 Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala  
 1 5 10 15  
 Val Gly Trp Leu Pro Leu Ala Gln Gln Pro Leu Pro Pro Ala Pro Gly  
 20 25 30  
 Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly  
 35 40 45  
 Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr  
 50 55 60  
 Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly  
 65 70 75 80  
 Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn  
 85 90 95  
 Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln  
 100 105 110  
 Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val  
 115 120 125  
 Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala  
 130 135 140  
 Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro  
 145 150 155 160  
 Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe  
 165 170 175  
 Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr  
 180 185 190  
 Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile  
 195 200 205  
 Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly  
 210 215 220  
 Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu  
 225 230 235 240  
 Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg  
 245 250 255  
 Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile  
 260 265 270  
 Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser  
 275 280 285  
 Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys  
 290 295 300  
 Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys  
 305 310 315 320  
 Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala  
 325 330 335  
 Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn  
 340 345 350  
 Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val  
 355 360 365  
 Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala  
 370 375 380  
 Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile  
 385 390 395 400

Ala Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Arg Ile Tyr His  
                                   405                                  410                                  415  
 Gln Asn Gln Arg Ala Asp Lys Arg Arg Ala Gln Gln Lys Val Arg Leu  
                                   420                                  425                                  430  
 Ala Arg Ile Arg Leu Ala Lys Ser Gly Thr Thr Asn Ala Phe Leu Gln  
                                   435                                  440                                  445  
 Tyr Lys Gln Asn Gly Gly Leu Glu Asp Ser Gly Ser Gly Glu Glu Gln  
                                   450                                  455                                  460  
 Ala Val Cys Val Arg Asn Arg Ser Ala Phe Glu Gln Gln His His His  
                                   465                                  470                                  475                                  480  
 Leu Leu His Cys Leu Glu Lys Thr Thr Cys His Glu Phe Thr Asp Glu  
                                   485                                  490                                  495  
 Leu Thr Phe Ser Glu Ala Leu Gly Ala Val Ser Pro Gly Gly Arg Thr  
                                   500                                  505                                  510  
 Ser Arg Ser Thr Ser Val Ser Ser Gln Pro Val Gly Pro Gly Ser Leu  
                                   515                                  520                                  525  
 Leu Ser Ser Cys Cys Pro Arg Arg Ala Lys Arg Arg Ala Ile Arg Leu  
                                   530                                  535                                  540  
 Ala Asn Ser Thr Ala Ser Val Ser Arg Gly Ser Met Gln Glu Leu Asp  
                                   545                                  550                                  555                                  560  
 Met Leu Ala Gly Leu Arg Arg Ser His Ala Pro Gln Ser Arg Ser Ser  
                                   565                                  570                                  575  
 Leu Asn Ala Lys Pro His Asp Ser Leu Asp Leu Asn Cys Asp Ser Gly  
                                   580                                  585                                  590  
 Asp Phe Val Ala Ala Ile Ile Ser Ile Pro Thr Pro Pro Ala Asn Thr  
                                   595                                  600                                  605  
 Pro Asp Glu Ser Gln Pro Ser Ser Pro Gly Gly Gly Arg Ala Gly  
                                   610                                  615                                  620  
 Ser Thr Leu Arg Asn Ser Ser Leu Gly Thr Pro Cys Leu Phe Pro Glu  
                                   625                                  630                                  635                                  640  
 Thr Val Lys Ile Ser Ser Leu  
                                   645                                  647

&lt;210&gt; 1113

&lt;211&gt; 220

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(220)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1113

Gly Trp Gly Lys Pro Phe Lys Asp Trp Thr Thr Gly Gly Gln Asp Thr  
   1                                  5                                  10                                  15  
 Gly Gly Glu Pro Ala Leu Leu Val Gly Ala Gly Glu Gly Arg Ala Pro  
                                   20                                  25                                  30  
 Arg Leu Asn Cys Pro Ser Gly Gln Ile Arg Ser Pro Gly Pro Gly Asp  
                                   35                                  40                                  45  
 Leu Ser Ile Tyr Asp Asn Trp Ile Arg Tyr Phe Asn Arg Ser Ser Pro  
                                   50                                  55                                  60  
 Val Tyr Gly Leu Val Pro Arg Ser Lys Thr Ser Ala Arg Ile Tyr Pro  
                                   65                                  70                                  75                                  80  
 Thr Tyr His Thr Ala Phe Asp Thr Phe Asp Tyr Val Asp Lys Phe Leu  
                                   85                                  90                                  95  
 Asp Pro Gly Glu Glu Gly Asp Lys Gly His Pro Glu Thr Arg Thr Gly  
                                   100                                  105                                  110  
 Glu Ala Glu Asp Xaa Ala Leu Ala Leu Ser Pro Cys Arg Arg Phe Ser



115	120	125
Ser His Gln Ala Val Ala Arg Thr Ala Gly Ser Val Ile Leu Arg Leu		
130	135	140
Ser Asp Ser Phe Phe Leu Pro Leu Lys Val Ser Asp Tyr Ser Glu Thr		
145	150	155
Leu Arg Ser Phe Leu Gln Ala Ala Gln Gln Asp Leu Gly Ala Leu Leu		
165	170	175
Glu Gln His Ser Ile Ser Leu Gly Pro Leu Val Thr Ala Val Glu Lys		
180	185	190
Phe Glu Ala Glu Ala Ala Ala Leu Gly Gln Arg Ile Ser Thr Leu Gln		
195	200	205
Lys Gly Ser Pro Asp Pro Leu Gln Val Arg Met Leu		
210	215	220

<210> 1114  
 <211> 382  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1114

Gly Ile Arg Gly Gly Gly Ser Leu Ala Ser Gly Gly Pro Gly Pro Gly		
1	5	10
His Ala Ser Leu Ser Gln Arg Leu Arg Leu Tyr Leu Ala Asp Ser Trp		
20	25	30
Asn Gln Cys Asp Leu Val Ala Leu Thr Cys Phe Leu Leu Gly Val Gly		
35	40	45
Cys Arg Leu Thr Pro Gly Leu Tyr His Leu Gly Arg Thr Val Leu Cys		
50	55	60
Ile Asp Phe Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val		
65	70	75
Asn Lys Gln Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys		
85	90	95
Asp Val Phe Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr		
100	105	110
Gly Val Ala Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro		
115	120	125
Ser Ile Leu Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly		
130	135	140
Gln Ile Pro Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn		
145	150	155
Cys Ser Ser Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala		
165	170	175
Gly Thr Cys Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu		
180	185	190
Val Ile Phe Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile		
195	200	205
Ala Met Phe Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu		
210	215	220
Tyr Trp Lys Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg		
225	230	235
Pro Ala Leu Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu		
245	250	255
Leu Arg Gln Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Pro		
260	265	270
Ala Leu Glu His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys		
275	280	285
Leu Leu Thr Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg		
290	295	300
Ala Arg Asp Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser		

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305          310          315          320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr
          325          330          335
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg
          340          345          350
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro
          355          360          365
Pro Gly Gly Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
          370          375          380          382

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<210> 1115
<211> 109
<212>Amino acid
<213> Homo sapiens

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<400> 1115
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu
 1          5          10          15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala
          20          25          30
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys
          35          40          45
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser
          50          55          60
Ser Leu Arg Tyr Glu Leu Leu Glu Glu Lys Ser Gln Ala Thr Gly Glu
 65          70          75          80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu
          85          90          95
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile
          100          105          109

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<210> 1116
<211> 679
<212>Amino acid
<213> Homo sapiens

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<400> 1116
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser
 1          5          10          15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu
          20          25          30
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala
          35          40          45
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val
          50          55          60
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys
 65          70          75          80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys
          85          90          95
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly
          100          105          110
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser
          115          120          125
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Gly Lys

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130	135	140			
Ile Arg His Phe Val Ser	Leu Lys Lys Leu Cys Cys Thr Thr Asp Asn				
145	150	155			160
Asn Lys Gln Ile His Lys Ile His Arg Asp Ser Gly Asp Asn Ser Gln					
	165	170			175
Thr Glu Pro His Ser Phe Arg Tyr Lys Asn Arg Arg Lys Glu Ser Ile					
	180	185			190
Asp Val Lys Ser Ile Ser Ser Arg Gly Ser Asp Ala Pro Ser Leu Gln					
	195	200			205
Asn Arg Arg Tyr Pro Ser Met Ala Arg Ile His Ser Met Thr Ile Glu					
	210	215			220
Ala Pro Ile Thr Lys Val Ile Asn Ile Ile Asn Ala Ala Gln Glu Asn					
	225	230			235
Ser Pro Val Thr Val Ala Glu Ala Leu Asp Arg Val Leu Glu Ile Leu					
	245	250			255
Arg Thr Thr Glu Leu Tyr Ser Pro Gln Leu Gly Thr Lys Asp Glu Asp					
	260	265			270
Pro His Thr Ser Asp Leu Val Gly Gly Leu Met Thr Asp Gly Leu Arg					
	275	280			285
Arg Leu Ser Gly Asn Glu Tyr Val Phe Thr Lys Asn Val His Gln Ser					
	290	295			300
His Ser His Leu Ala Met Pro Ile Thr Ile Asn Asp Val Pro Pro Cys					
	305	310			315
Ile Ser Gln Leu Leu Asp Asn Glu Glu Ser Trp Asp Phe Asn Ile Phe					
	325	330			335
Glu Leu Glu Ala Ile Thr His Lys Arg Pro Leu Val Tyr Leu Gly Leu					
	340	345			350
Lys Val Phe Ser Arg Phe Gly Val Cys Glu Phe Leu Asn Cys Ser Glu					
	355	360			365
Thr Thr Leu Arg Ala Trp Phe Gln Val Ile Glu Ala Asn Tyr His Ser					
	370	375			380
Ser Asn Ala Tyr His Asn Ser Thr His Ala Ala Asp Val Leu His Ala					
	385	390			395
Thr Ala Phe Phe Leu Gly Lys Glu Arg Val Lys Gly Ser Leu Asp Gln					
	405	410			415
Leu Asp Glu Val Ala Ala Leu Ile Ala Ala Thr Val His Asp Val Asp					
	420	425			430
His Pro Gly Arg Thr Asn Ser Phe Leu Cys Asn Ala Gly Ser Glu Leu					
	435	440			445
Ala Val Leu Tyr Asn Asp Thr Ala Val Leu Glu Ser His His Thr Ala					
	450	455			460
Leu Ala Phe Gln Leu Thr Val Lys Asp Thr Lys Cys Asn Ile Phe Lys					
	465	470			475
Asn Ile Asp Arg Gly Asn His Tyr Arg Thr Leu Arg Gln Ala Ile Ile					
	485	490			495
Asp Met Val Leu Ala Thr Glu Met Thr Lys His Phe Glu His Val Asn					
	500	505			510
Lys Phe Val Asn Ser Ile Asn Lys Pro Met Ala Ala Glu Ile Glu Gly					
	515	520			525
Ser Asp Cys Glu Cys Asn Pro Ala Gly Lys Asn Phe Pro Glu Asn Gln					
	530	535			540
Ile Leu Ile Lys Arg Met Met Ile Lys Cys Ala Asp Val Ala Asn Pro					
	545	550			555
Cys Arg Pro Leu Asp Leu Cys Ile Glu Trp Ala Gly Arg Ile Ser Glu					
	565	570			575
Glu Tyr Phe Ala Gln Thr Asp Glu Glu Lys Arg Gln Gly Leu Pro Val					
	580	585			590
Val Met Pro Val Phe Asp Arg Asn Thr Cys Ser Ile Pro Lys Ser Gln					
	595	600			605
Ile Ser Phe Ile Asp Tyr Phe Ile Thr Asp Met Phe Asp Ala Trp Asp					
	610	615			620
Ala Phe Ala His Leu Pro Ala Leu Met Gln His Leu Ala Asp Asn Tyr					
	625	630			635
Lys His Trp Lys Thr Leu Asp Asp Leu Lys Cys Lys Ser Leu Arg Leu					
					640

645                      650                      655  
Pro Ser Asp Arg Leu Lys Pro Ser His Arg Gly Gly Leu Leu Thr Asp  
660  
Lys Gly His Cys Glu Ser Gln  
675                      679

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<210> 1117
<211> 1193
<212> Amino acid
<213> Homo sapiens
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<400> 1117																	
Ala	Phe	Leu	Ser	Lys	Val	Glu	Glu	Asp	Asp	Tyr	Pro	Ser	Glu	Glu	Leu		
1				5				10					15				
Leu	Glu	Asp	Glu	Asn	Ala	Ile	Asn	Ala	Lys	Arg	Ser	Lys	Glu	Lys	Asn		
			20					25					30				
Pro	Gly	Asn	Gln	Gly	Arg	Gln	Phe	Asp	Val	Asn	Leu	Gln	Val	Pro	Asp		
		35					40					45					
Arg	Ala	Val	Leu	Gly	Thr	Ile	His	Pro	Asp	Pro	Glu	Ile	Glu	Glu	Ser		
	50					55					60						
Lys	Gln	Glu	Thr	Ser	Met	Ile	Leu	Asp	Ser	Glu	Lys	Thr	Ser	Glu	Thr		
65					70					75					80		
Ala	Ala	Lys	Gly	Val	Asn	Thr	Gly	Gly	Arg	Glu	Pro	Asn	Thr	Met	Val		
				85					90					95			
Glu	Lys	Glu	Arg	Pro	Leu	Ala	Asp	Lys	Lys	Ala	Gln	Arg	Pro	Phe	Glu		
			100					105					110				
Arg	Ser	Asp	Phe	Ser	Asp	Ser	Ile	Lys	Ile	Gln	Thr	Pro	Glu	Leu	Gly		
		115					120					125					
Glu	Val	Phe	Gln	Asn	Lys	Asp	Ser	Ser	Asp	Tyr	Leu	Lys	Asn	Asp	Asn	Pro	
	130					135						140					
Glu	Glu	His	Leu	Lys	Thr	Ser	Gly	Leu	Ala	Gly	Glu	Pro	Glu	Gly	Glu		
	145				150					155					160		
Leu	Ser	Lys	Glu	Asp	His	Glu	Asn	Thr	Glu	Lys	Tyr	Met	Gly	Thr	Glu		
			165						170					175			
Ser	Gln	Gly	Ser	Ala	Ala	Ala	Glu	Pro	Glu	Asp	Asp	Ser	Phe	His	Trp		
		180						185					190				
Thr	Pro	His	Thr	Ser	Val	Glu	Pro	Gly	His	Ser	Asp	Lys	Arg	Glu	Asp		
	195						200					205					
Leu	Leu	Ile	Ile	Ser	Ser	Phe	Phe	Lys	Glu	Gln	Gln	Ser	Leu	Gln	Arg		
	210					215					220						
Phe	Gln	Lys	Tyr	Phe	Asn	Val	His	Glu	Leu	Glu	Ala	Leu	Leu	Gln	Glu		
	225				230					235				240			
Met	Ser	Ser	Lys	Leu	Lys	Ser	Ala	Gln	Gln	Glu	Ser	Leu	Pro	Tyr	Asn		
			245						250				255				
Met	Glu	Lys	Val	Leu	Asp	Lys	Val	Phe	Arg	Ala	Ser	Glu	Ser	Gln	Ile		
			260					265					270				
Leu	Ser	Ile	Ala	Glu	Lys	Met	Leu	Asp	Thr	Arg	Val	Ala	Glu	Asn	Arg		
		275					280						285				
Asp	Leu	Gly	Met	Asn	Glu	Asn	Asn	Ile	Phe	Glu	Glu	Ala	Ala	Val	Leu		
	290					295					300						
Asp	Asp	Ile	Gln	Asp	Leu	Ile	Tyr	Phe	Val	Arg	Tyr	Lys	His	Ser	Thr		
	305				310					315					320		
Ala	Glu	Glu	Thr	Ala	Thr	Leu	Val	Met	Al								

370					375					380					
Ser	Gln	Lys	Pro	Asn	Thr	Glu	Lys	Asp	Leu	Asp	Pro	Gly	Pro	Val	Thr
385					390					395					400
Thr	Glu	Asp	Thr	Pro	Met	Asp	Ala	Ile	Asp	Ala	Asn	Lys	Gln	Pro	Glu
				405					410					415	
Thr	Ala	Ala	Glu	Glu	Pro	Ala	Ser	Val	Thr	Pro	Leu	Glu	Asn	Ala	Ile
			420					425					430		
Leu	Leu	Ile	Tyr	Ser	Phe	Met	Phe	Tyr	Leu	Thr	Lys	Ser	Leu	Val	Ala
		435				440					445				
Thr	Leu	Pro	Asp	Asp	Val	Gln	Pro	Gly	Pro	Asp	Phe	Tyr	Gly	Leu	Pro
	450				455						460				
Trp	Lys	Pro	Val	Phe	Ile	Thr	Ala	Phe	Leu	Gly	Ile	Ala	Ser	Phe	Ala
	465				470					475				480	
Ile	Phe	Leu	Trp	Arg	Thr	Val	Leu	Val	Val	Lys	Asp	Arg	Val	Tyr	Gln
			485					490					495		
Val	Thr	Glu	Gln	Gln	Ile	Ser	Glu	Lys	Leu	Lys	Thr	Ile	Met	Lys	Glu
		500					505					510			
Asn	Thr	Glu	Leu	Val	Gln	Lys	Leu	Ser	Asn	Tyr	Glu	Gln	Lys	Ile	Lys
	515						520					525			
Glu	Ser	Lys	Lys	His	Val	Gln	Glu	Thr	Arg	Lys	Gln	Asn	Met	Ile	Leu
	530				535						540				
Ser	Asp	Glu	Ala	Ile	Lys	Tyr	Lys	Asp	Lys	Ile	Lys	Thr	Leu	Glu	Lys
	545				550					555				560	
Asn	Gln	Glu	Ile	Leu	Asp	Asp	Thr	Ala	Lys	Asn	Leu	Arg	Val	Met	Leu
			565						570					575	
Glu	Ser	Glu	Arg	Glu	Gln	Asn	Val	Lys	Asn	Gln	Asp	Leu	Ile	Ser	Glu
	580						585						590		
Asn	Lys	Lys	Ser	Ile	Glu	Lys	Leu	Lys	Asp	Val	Ile	Ser	Met	Asn	Ala
	595						600				605				
Ser	Glu	Phe	Ser	Glu	Val	Gln	Ile	Ala	Leu	Asn	Glu	Ala	Lys	Leu	Ser
	610				615						620				
Glu	Glu	Lys	Val	Lys	Ser	Glu	Cys	His	Arg	Val	Gln	Glu	Glu	Asn	Ala
	625				630					635				640	
Arg	Leu	Lys	Lys	Lys	Lys	Glu	Gln	Leu	Gln	Gln	Glu	Ile	Glu	Asp	Trp
			645					650					655		
Ser	Lys	Leu	His	Ala	Glu	Leu	Ser	Glu	Gln	Ile	Lys	Ser	Phe	Glu	Lys
	660						665						670		
Ser	Gln	Lys	Asp	Leu	Glu	Val	Ala	Leu	Thr	His	Lys	Asp	Asp	Asn	Ile
	675					680						685			
Asn	Ala	Leu	Thr	Asn	Cys	Ile	Thr	Gln	Leu	Asn	Leu	Leu	Glu	Cys	Glu
	690				695						700				
Ser	Glu	Ser	Glu	Gly	Gln	Asn	Lys	Gly	Gly	Asn	Asp	Ser	Asp	Glu	Leu
	705				710					715				720	
Ala	Asn	Gly	Glu	Val	Gly	Gly	Asp	Arg	Asn	Glu	Lys	Met	Lys	Asn	Gln
			725						730					735	
Ile	Lys	Gln	Met	Met	Asp	Val	Ser	Arg	Thr	Gln	Thr	Ala	Ile	Ser	Val
	740							745					750		
Val	Glu	Glu	Asp	Leu	Lys	Leu	Leu	Gln	Leu	Lys	Leu	Arg	Ala	Ser	Val
	755					760						765			
Ser	Thr	Lys	Cys	Asn	Leu	Glu	Asp	Gln	Val	Lys	Lys	Leu	Glu	Asp	Asp
	770					775					780				
Arg	Asn	Ser	Leu	Gln	Ala	Ala	Lys	Ala	Gly	Leu	Glu	Asp	Glu	Cys	Lys
	785				790					795				800	
Thr	Leu	Arg	Gln	Lys	Val	Glu	Ile	Leu	Asn	Glu	Leu	Tyr	Gln	Gln	Lys
			805					810						815	
Glu	Met	Ala	Leu	Gln	Lys	Lys	Leu	Ser	Gln	Glu	Glu	Tyr	Glu	Arg	Gln
	820						825						830		
Glu	Arg	Glu	His	Arg	Leu	Ser	Ala	Ala	Asp	Glu	Lys	Ala	Val	Ser	Ala
	835					840					845				
Ala	Glu	Glu	Val	Lys	Thr	Tyr	Lys	Arg	Arg	Ile	Glu	Glu	Met	Glu	Asp
	850					855					860				
Glu	Leu	Gln	Lys	Thr	Glu	Arg	Ser	Phe	Lys	Asn	Gln	Ile	Ala	Thr	His
	865				870					875				880	
Glu	Lys	Lys	Ala	His	Glu	Asn	Trp	Leu	Lys	Ala	Arg	Ala	Ala	Glu	Arg

[illegible]

```
<210> 1118
<211> 981
<212> Amino acid
<213> Homo sapiens
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<400> 1118															
Met	Ala	Ala	Asp	Ser	Glu	Pro	Glu	Ser	Glu	Val	Phe	Glu	Ile	Thr	Asp
1				5					10					15	
Phe	Thr	Thr	Ala	Ser	Glu	Trp	Glu	Arg	Phe	Ile	Ser	Lys	Val	Glu	Glu
			20					25					30		
Val	Leu	Asn	Asp	Trp	Lys	Leu	Ile	Gly	Asn	Ser	Leu	Gly	Lys	Pro	Leu
		35					40					45			
Glu	Lys	Gly	Ile	Phe	Thr	Ser	Gly	Thr	Trp	Glu	Glu	Lys	Ser	Asp	Glu
	50					55					60				
Ile	Ser	Phe	Ala	Asp	Phe	Lys	Phe	Ser	Val	Thr	His	His	Tyr	Leu	Val
65					70					75				80	
Gln	Glu	Ser	Thr	Asp	Lys	Glu	Gly	Lys	Asp	Glu	Leu	Leu	Glu	Asp	Val
				85					90					95	
Val	Pro	Gln	Ser	Met	Gln	Asp	Leu	Leu	Gly	Met	Asn	Asn	Asp	Phe	Pro

Pro	Arg	Ala	His	Cys	Leu	Val	Arg	Trp	Tyr	Gly	Leu	Arg	Glu	Phe	Val	100	105	110
Val	Ile	Ala	Pro	Ala	Ala	His	Ser	Asp	Ala	Val	Leu	Ser	Glu	Ser	Lys	115	120	125
Cys	Asn	Leu	Leu	Leu	Ser	Ser	Val	Ser	Ile	Ala	Leu	Gly	Asn	Thr	Gly	130	135	140
Cys	Gln	Val	Pro	Leu	Phe	Val	Gln	Ile	His	His	Lys	Trp	Arg	Arg	Met	145	150	155
Tyr	Val	Gly	Glu	Cys	Gln	Gly	Pro	Gly	Val	Arg	Thr	Asp	Phe	Glu	Met	160	165	170
Val	His	Leu	Arg	Lys	Val	Pro	Asn	Gln	Tyr	Thr	His	Leu	Ser	Gly	Leu	175	180	185
Leu	Asp	Ile	Phe	Lys	Ser	Lys	Ile	Gly	Cys	Pro	Leu	Thr	Pro	Leu	Pro	190	195	200
Pro	Val	Ser	Ile	Ala	Ile	Arg	Phe	Thr	Tyr	Val	Leu	Gln	Asp	Trp	Gln	205	210	215
Gln	Tyr	Phe	Trp	Pro	Gln	Gln	Pro	Pro	Asp	Ile	Asp	Ala	Leu	Val	Gly	220	225	230
Gly	Glu	Val	Gly	Gly	Leu	Glu	Phe	Gly	Lys	Leu	Pro	Phe	Gly	Ala	Cys	235	240	245
Glu	Asp	Pro	Ile	Ser	Glu	Leu	His	Leu	Ala	Thr	Thr	Trp	Pro	His	Leu	250	255	260
Thr	Glu	Gly	Ile	Ile	Val	Asp	Asn	Asp	Val	Tyr	Ser	Asp	Leu	Asp	Pro	265	270	275
Ile	Gln	Ala	Pro	His	Trp	Ser	Val	Arg	Val	Arg	Lys	Ala	Glu	Asn	Pro	280	285	290
Gln	Cys	Leu	Leu	Gly	Asp	Phe	Val	Thr	Glu	Phe	Phe	Lys	Ile	Cys	Arg	295	300	305
Arg	Lys	Glu	Ser	Thr	Asp	Glu	Ile	Leu	Gly	Arg	Ser	Ala	Phe	Glu	Glu	310	315	320
Glu	Gly	Lys	Glu	Thr	Ala	Asp	Ile	Thr	His	Ala	Leu	Ser	Lys	Leu	Thr	325	330	335
Glu	Pro	Ala	Ser	Val	Pro	Ile	His	Lys	Leu	Ser	Val	Ser	Asn	Met	Val	340	345	350
His	Thr	Ala	Lys	Lys	Lys	Ile	Arg	Lys	His	Arg	Gly	Val	Glu	Glu	Ser	355	360	365
Pro	Leu	Asn	Asn	Asp	Val	Leu	Asn	Thr	Ile	Leu	Leu	Phe	Leu	Phe	Pro	370	375	380
Asp	Ala	Val	Ser	Glu	Lys	Pro	Leu	Asp	Gly	Thr	Thr	Ser	Thr	Asp	Asn	385	390	395
Asn	Asn	Pro	Pro	Ser	Glu	Ser	Glu	Asp	Tyr	Asn	Leu	Tyr	Asn	Gln	Phe	400	405	410
Lys	Ser	Ala	Pro	Ser	Asp	Ser	Leu	Thr	Tyr	Lys	Leu	Ala	Leu	Cys	Leu	415	420	425
Cys	Met	Ile	Asn	Phe	Tyr	His	Gly	Gly	Leu	Lys	Gly	Val	Ala	His	Leu	430	435	440
Trp	Gln	Glu	Phe	Val	Leu	Glu	Met	Arg	Phe	Arg	Trp	Glu	Asn	Asn	Phe	445	450	455
Leu	Ile	Pro	Gly	Leu	Ala	Ser	Gly	Pro	Pro	Asp	Leu	Arg	Cys	Cys	Leu	460	465	470
Leu	His	Gln	Lys	Leu	Gln	Met	Leu	Asn	Cys	Cys	Ile	Glu	Arg	Lys	Lys	475	480	485
Ala	Arg	Asp	Glu	Gly	Lys	Lys	Thr	Ser	Ala	Ser	Asp	Val	Thr	Asn	Ile	490	495	500
Tyr	Pro	Gly	Asp	Ala	Gly	Lys	Ala	Gly	Asp	Gln	Leu	Val	Pro	Asp	Asn	505	510	515
Leu	Lys	Glu	Thr	Asp	Lys	Glu	Lys	Gly	Glu	Val	Gly	Lys	Ser	Trp	Asp	520	525	530
Ser	Trp	Ser	Asp	Ser	Glu	Glu	Glu	Phe	Phe	Glu	Cys	Leu	Ser	Asp	Thr	535	540	545
Glu	Glu	Leu	Lys	Gly	Asn	Gly	Gln	Glu	Ser	Gly	Lys	Gly	Gly	Gly	Pro	550	555	560
Lys	Glu	Met	Ala	Asn	Leu	Arg	Pro	Glu	Gly	Arg	Leu	Tyr	Gln	His	Gly	565	570	575

610	615	620
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr		
625	630	635
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu		640
	645	650
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala		655
660	665	670
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala		
675	680	685
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro		700
690	695	705
Arg Asp Tyr Ile Glu Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val		715
710	715	720
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp		
	725	730
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg		735
740	745	750
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu		
755	760	765
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val		
770	775	780
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Glu Ser Leu Glu Asn		795
785	790	800
Ile Ser Ser Val Lys Lys Ile Ile Lys Gln Ile Ile Ser His Ser Ser		
	805	810
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile		815
820	825	830
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser		
835	840	845
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Glu Lys		
850	855	860
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val		875
865	870	880
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys		
	885	890
Leu Phe Val Asn Ala Gln Arg Ala Ala Met Thr Pro Pro Glu Glu		905
900	905	910
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val		
915	920	925
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr		
930	935	940
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr		
945	950	955
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser		
	965	970
Asp Thr Ser Phe Phe		975
980	981	

&lt;210&gt; 1119

&lt;211&gt; 554

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

Ser	Pro	Thr	Arg	Thr	Gly	Asp	Arg	Ser	Val	Ser	Leu	Ile	Val	Phe	Leu
1				5					10					15	
Thr	Glu	Gly	Lys	Pro	Thr	Val	Gly	Glu	Thr	His	Thr	Leu	Lys	Ile	Leu
			20					25					30		
Asn	Asn	Thr	Arg	Glu	Ala	Ala	Arg	Gly	Gln	Val	Cys	Ile	Phe	Thr	Ile



35 40 45  
 Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser Leu  
 50 55 60  
 Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala Gly  
 65 70 75 80  
 Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu Ser  
 85 90 95  
 Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr Lys  
 100 105 110  
 Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala Gly  
 115 120 125  
 Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr Ala  
 130 135 140  
 Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val Arg  
 145 150 155 160  
 Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly Gly  
 165 170 175  
 Asp Gly Glu Gly Asp Thr Asn His Ile Glu Arg Leu Trp Ser Tyr Leu  
 180 185 190  
 Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu Pro  
 195 200 205  
 Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser Tyr  
 210 215 220  
 Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val Pro  
 225 230 235 240  
 Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala Ala Met Gly  
 245 250 255  
 Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro Gly  
 260 265 270  
 Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys Thr  
 275 280 285  
 Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser Arg  
 290 295 300  
 Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu Arg  
 305 310 315 320  
 Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu Leu  
 325 330 335  
 Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr Tyr  
 340 345 350  
 Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr Leu  
 355 360 365  
 Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu Val  
 370 375 380  
 Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu Val  
 385 390 395 400  
 Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser Ile  
 405 410 415  
 Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe Gln  
 420 425 430  
 Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser Ser  
 435 440 445  
 Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp Ala Arg Leu  
 450 455 460  
 Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His Pro Leu Leu  
 465 470 475 480  
 Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val Lys Gly His  
 485 490 495  
 Gln Val Pro Val Trp Lys Gln Arg Lys Ile Tyr Asn Gly Glu Glu  
 500 505 510  
 Gln Ile Asp Cys Trp Phe Ala Arg Asn Asn Ala Ala Lys Leu Ile Asp  
 515 520 525  
 Gly Glu Tyr Lys Asp Tyr Leu Ala Ser His Pro Phe Asp Thr Gly Met  
 530 535 540  
 Thr Leu Gly Gln Gly Met Ser Arg Glu Leu

545

550

554

<210> 1120  
 <211> 107  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1120  
 Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln  
 1 5 10 15  
 Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly  
 20 25 30  
 Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile  
 35 40 45  
 Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val  
 50 55 60  
 Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu  
 65 70 75 80  
 Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro  
 85 90 95  
 Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe  
 100 105 107

<210> 1121  
 <211> 1241  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1121  
 Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val  
 1 5 10 15  
 Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro  
 20 25 30  
 Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val  
 35 40 45  
 Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly  
 50 55 60  
 Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln  
 65 70 75 80  
 Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu  
 85 90 95  
 His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val  
 100 105 110  
 Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met  
 115 120 125  
 Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu  
 130 135 140  
 Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr  
 145 150 155 160  
 Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser  
 165 170 175  
 Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val  
 180 185 190  
 Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

195	200	205
Arg Ser Val Gly Arg Ala Arg Asp Gly Thr Thr Phe Pro Leu Ser Leu		
210	215	220
Lys Leu Lys Ser Gln Pro Ser Ser Glu Glu Ala Thr Thr Gly Glu Ala		
225	230	235
Ala Pro Val Ser Gly Tyr Arg Ala Ser Val Trp Val Phe Cys Thr Ile		
240	245	250
Ser Gly Leu Ile Thr Leu Leu Pro Asp Gly Thr Ile His Gly Ile Asn		
255	260	265
His Ser Phe Ala Leu Thr Leu Phe Gly Tyr Gly Lys Thr Glu Leu Leu		
270	275	280
Gly Lys Asn Ile Thr Phe Leu Ile Pro Gly Phe Tyr Ser Tyr Met Asp		
285	290	295
Leu Ala Tyr Asn Ser Ser Leu Gln Leu Pro Asp Leu Ala Ser Cys Leu		
300	305	310
Asp Val Gly Asn Glu Ser Gly Cys Gly Glu Arg Thr Leu Asp Pro Trp		
315	320	325
Gln Gly Gln Asp Pro Ala Glu Gly Gly Gln Asp Pro Arg Ile Asn Val		
330	335	340
Val Leu Ala Gly Gly His Val Val Pro Arg Asp Glu Ile Arg Lys Leu		
345	350	355
Met Glu Ser Gln Asp Ile Phe Thr Gly Thr Gln Thr Glu Leu Ile Ala		
360	365	370
Gly Gly Gln Leu Leu Ser Cys Leu Ser Pro Gln Pro Ala Pro Gly Val		
375	380	385
Asp Asn Val Pro Glu Gly Ser Leu Pro Val His Gly Glu Gln Ala Leu		
390	395	400
Pro Lys Asp Gln Gln Ile Thr Ala Leu Gly Arg Glu Glu Pro Val Ala		
405	410	415
Ile Glu Ser Pro Gly Gln Asp Leu Leu Gly Glu Ser Arg Ser Glu Pro		
420	425	430
Val Asp Val Lys Pro Phe Ala Ser Cys Glu Asp Ser Glu Ala Pro Val		
435	440	445
Pro Ala Glu Asp Gly Gly Ser Asp Ala Gly Met Cys Gly Leu Cys Gln		
450	455	460
Lys Ala Gln Leu Glu Arg Met Gly Val Ser Gly Pro Ser Gly Ser Asp		
465	470	475
Leu Trp Ala Gly Ala Ala Val Ala Lys Pro Gln Ala Lys Gly Gln Leu		
480	485	490
Ala Gly Gly Ser Leu Leu Met His Cys Pro Cys Tyr Gly Ser Glu Trp		
495	500	505
Gly Leu Trp Trp Arg Ser Gln Asp Leu Ala Pro Ser Pro Ser Gly Met		
510	515	520
Ala Gly Leu Ser Phe Gly Thr Pro Thr Leu Asp Glu Pro Trp Leu Gly		
525	530	535
Val Glu Asn Asp Arg Glu Glu Leu Gln Thr Cys Leu Ile Lys Glu Gln		
540	545	550
Leu Ser Gln Leu Ser Leu Ala Gly Ala Leu Asp Val Pro His Ala Glu		
555	560	565
Leu Val Pro Thr Glu Cys Gln Ala Val Thr Ala Pro Val Ser Ser Cys		
570	575	580
Asp Leu Gly Gly Arg Asp Leu Cys Gly Gly Cys Thr Gly Ser Ser Ser		
585	590	595
Ala Cys Tyr Ala Leu Ala Thr Asp Leu Pro Gly Gly Leu Glu Ala Val		
600	605	610
Glu Ala Gln Glu Val Asp Val Asn Ser Phe Ser Trp Asn Leu Lys Glu		
615	620	625
Leu Phe Phe Ser Asp Gln Thr Asp Gln Thr Ser Ser Asn Cys Ser Cys		
630	635	640
Ala Thr Ser Glu Leu Arg Glu Thr Pro Ser Ser Leu Ala Val Gly Ser		
645	650	655
Asp Pro Asp Val Gly Ser Leu Gln Glu Gln Gly Ser Cys Val Leu Asp		
660	665	670
Asp Arg Glu Leu Leu Leu Thr Gly Thr Cys Val Asp Leu Gly Gln		
675	680	685
	690	695
	700	

705 710 715 720  
 Gly Arg Arg Phe Arg Glu Ser Cys Val Gly His Asp Pro Thr Glu Pro  
 725 730 735  
 Leu Glu Val Cys Leu Val Ser Ser Glu His Tyr Ala Ala Ser Asp Arg  
 740 745 750  
 Glu Ser Pro Gly His Val Pro Ser Thr Leu Asp Ala Gly Pro Glu Asp  
 755 760 765  
 Thr Cys Pro Ser Ala Glu Glu Pro Arg Leu Asn Val Gln Val Thr Ser  
 770 775 780  
 Thr Pro Val Ile Val Met Arg Gly Ala Ala Gly Leu Gln Arg Glu Ile  
 785 790 795 800  
 Gln Glu Gly Ala Tyr Ser Gly Ser Cys Tyr His Arg Asp Gly Leu Arg  
 805 810 815  
 Leu Ser Ile Gln Phe Glu Val Arg Arg Val Glu Leu Gln Gly Pro Thr  
 820 825 830  
 Pro Leu Phe Cys Cys Trp Leu Val Lys Asp Leu Leu His Ser Gln Arg  
 835 840 845  
 Asp Ser Ala Ala Arg Thr Arg Leu Phe Leu Ala Ser Leu Pro Gly Ser  
 850 855 860  
 Thr His Ser Thr Ala Ala Glu Leu Thr Gly Pro Ser Leu Val Glu Val  
 865 870 875 880  
 Leu Arg Ala Arg Pro Trp Phe Glu Glu Pro Pro Lys Ala Val Glu Leu  
 885 890 895  
 Glu Gly Leu Ala Ala Cys Glu Gly Glu Tyr Ser Gln Lys Tyr Ser Thr  
 900 905 910  
 Met Ser Pro Leu Gly Ser Gly Ala Phe Gly Phe Val Trp Thr Ala Val  
 915 920 925  
 Asp Lys Glu Lys Asn Lys Glu Val Val Val Lys Phe Ile Lys Lys Glu  
 930 935 940  
 Lys Val Leu Glu Asp Cys Trp Ile Glu Asp Pro Lys Leu Gly Lys Val  
 945 950 955 960  
 Thr Leu Glu Ile Ala Ile Leu Ser Arg Val Glu His Ala Asn Ile Ile  
 965 970 975  
 Lys Val Leu Asp Ile Phe Glu Asn Gln Gly Phe Phe Gln Leu Val Met  
 980 985 990  
 Glu Lys His Gly Ser Gly Leu Asp Leu Phe Ala Phe Ile Asp Arg His  
 995 1000 1005  
 Pro Arg Leu Asp Glu Pro Leu Ala Ser Tyr Ile Phe Arg Gln Val Arg  
 1010 1015 1020  
 Ala Gly Gln Ser Arg Leu Val Ser Ala Val Gly Tyr Leu Arg Leu Lys  
 1025 1030 1035 1040  
 Asp Ile Ile His Arg Asp Ile Lys Asp Glu Asn Ile Val Ile Ala Glu  
 1045 1050 1055  
 Asp Phe Thr Ile Lys Leu Ile Asp Phe Gly Ser Ala Ala Tyr Leu Glu  
 1060 1065 1070  
 Arg Gly Lys Leu Phe Tyr Thr Phe Cys Gly Thr Ile Glu Tyr Cys Ala  
 1075 1080 1085  
 Pro Glu Val Leu Met Gly Asn Pro Tyr Arg Gly Pro Glu Leu Glu Met  
 1090 1095 1100  
 Trp Ser Leu Gly Val Thr Leu Tyr Thr Leu Val Phe Glu Glu Asn Pro  
 1105 1110 1115 1120  
 Phe Cys Glu Leu Glu Glu Thr Val Glu Ala Ala Ile His Pro Pro Tyr  
 1125 1130 1135  
 Leu Val Ser Lys Glu Leu Met Ser Leu Val Ser Gly Leu Leu Gln Pro  
 1140 1145 1150  
 Val Pro Glu Arg Arg Thr Thr Leu Glu Lys Leu Val Thr Asp Pro Trp  
 1155 1160 1165  
 Val Thr Gln Pro Val Asn Leu Ala Asp Tyr Thr Trp Glu Glu Val Phe  
 1170 1175 1180  
 Arg Val Asn Lys Pro Glu Ser Gly Val Leu Ser Ala Ala Ser Leu Glu  
 1185 1190 1195 1200  
 Met Gly Asn Arg Ser Leu Ser Asp Val Ala Gln Ala Gln Glu Lys Cys  
 1205 1210 1215  
 Gly Gly Pro Val Pro Gly Glu Ala Pro Asn Gly Gln Gly Cys Leu His

1220 1225 1230  
 Pro Gly Asp Pro Arg Leu Leu Thr Ser  
 1235 1240 1241

<210> 1122  
 <211> 395  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1122  
 Pro Gly Thr Ser Ala Ala Thr Cys Arg Phe Leu Ser Pro Pro Val Ile  
 1 5 10 15  
 Ser Leu Ser Phe Thr Gly Leu Cys Ile Ser Asp Leu Val Val Ala Val  
 20 25 30  
 Asn Gly Val Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn  
 35 40 45  
 Phe Phe Ser Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile  
 50 55 60  
 Tyr Gly Val Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu  
 65 70 75 80  
 Tyr Leu Ser Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe  
 85 90 95  
 Ala Phe Leu Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr  
 100 105 110  
 Phe Ile Val Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu  
 115 120 125  
 Lys Glu Arg Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro  
 130 135 140  
 Arg Met Ala Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe  
 145 150 155 160  
 Ala Ile Val Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys  
 165 170 175  
 Cys Asn Thr Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr  
 180 185 190  
 Val Gly Asn Arg Thr Val Val Glu Gly Tyr Tyr Tyr Leu Asn Asn  
 195 200 205  
 Phe Asp Asn Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val  
 210 215 220  
 Val Asn Asn Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser  
 225 230 235 240  
 His Trp Ser Arg Leu Tyr Phe Met Thr Phe Tyr Ile Val Thr Met Val  
 245 250 255  
 Val Met Thr Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg  
 260 265 270  
 Met Asn Tyr Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile  
 275 280 285  
 Thr Leu Glu Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu  
 290 295 300  
 Leu Tyr Arg Glu Ala Arg Gly Ala Ser Ser Asp Val Thr Arg Leu Leu  
 305 310 315 320  
 Glu Thr Leu Ser Gln Met Glu Arg Tyr Gln Gln His Ser Met Val Phe  
 325 330 335  
 Leu Gly Arg Arg Ser Arg Thr Lys Ser Asp Leu Ser Leu Lys Met Tyr  
 340 345 350  
 Gln Glu Glu Ile Gln Glu Trp Tyr Glu Glu His Ala Arg Glu Gln Glu  
 355 360 365  
 Gln Gln Arg Gln Leu Ser Ser Ser Ala Ala Pro Ala Ala Gln Gln Pro  
 370 375 380  
 Pro Gly Ser Arg Gln Arg Ser Gln Thr Val Thr

385

390

395

<210> 1123  
 <211> 328  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1123  
 Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu  
 1 5 10 15  
 Met Ala Ala Gly Gln Asn Gly His Glu Glu Trp Val Gly Ser Ala Tyr  
 20 25 30  
 Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr  
 35 40 45  
 Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala  
 50 55 60  
 Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile  
 65 70 75 80  
 His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg  
 85 90 95  
 Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg  
 100 105 110  
 Ala Ala Leu Gln Arg Ser Leu Ala Ala Leu Ala Gln His Ser Val  
 115 120 125  
 Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu  
 130 135 140  
 Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro  
 145 150 155 160  
 Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg  
 165 170 175  
 Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala  
 180 185 190  
 Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro  
 195 200 205  
 Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro  
 210 215 220  
 Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg  
 225 230 235 240  
 Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly  
 245 250 255  
 Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr  
 260 265 270  
 Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe  
 275 280 285  
 Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala  
 290 295 300  
 Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu  
 305 310 315 320  
 Thr Asp Pro Asn Gly Gly Leu Ala  
 325 328

<210> 1124  
 <211> 667  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(667)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1124

Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly  
 1 5 10 15  
 Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr  
 20 25 30  
 Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro  
 35 40 45  
 Pro Val Leu Gly Gly Asn Ser Asn Ser Ser Gly Gly Ala Gly  
 50 55 60  
 Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg  
 65 70 75 80  
 Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Ala  
 85 90 95  
 Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe  
 100 105 110  
 Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly  
 115 120 125  
 Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gln Pro Gln Trp  
 130 135 140  
 Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly  
 145 150 155 160  
 Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu  
 165 170 175  
 Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Thr Ala Leu  
 180 185 190  
 Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro  
 195 200 205  
 Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp  
 210 215 220  
 Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr  
 225 230 235 240  
 Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu  
 245 250 255  
 Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser  
 260 265 270  
 Glu Ser Leu Pro Ser Gln Asp Leu Leu Gly Pro Ser Glu Ser Asn  
 275 280 285  
 Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser  
 290 295 300  
 Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp  
 305 310 315 320  
 Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu  
 325 330 335  
 Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro  
 340 345 350  
 Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly  
 355 360 365  
 Glu Pro Glu Gly Gly Glu Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp  
 370 375 380  
 Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr  
 385 390 395 400  
 Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr  
 405 410 415  
 Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys  
 420 425 430  
 His Leu Arg Leu Ser Leu Asn Glu Glu Gly Gln Cys Arg Val Gln His  
 435 440 445

Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His  
 450 455 460  
 Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser  
 465 470 475 480  
 Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala  
 485 490 495  
 Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu  
 500 505 510  
 Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala  
 515 520 525  
 Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr  
 530 535 540  
 Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro  
 545 550 555 560  
 Pro Gln Pro Gly Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly  
 565 570 575  
 Gln Gln Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala  
 580 585 590  
 Gly Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val  
 595 600 605  
 Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala  
 610 615 620  
 Gln Gly Arg Leu Gly Pro Gly Gly Asp Ala Gly Val Pro Pro Met Val  
 625 630 635 640  
 Gln Leu Gln Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly Gly His  
 645 650 655  
 Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val  
 660 665 667

&lt;210&gt; 1125

&lt;211&gt; 387

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1125

Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile  
 1 5 10 15  
 Arg Arg Leu Pro Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu  
 20 25 30  
 Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu  
 35 40 45  
 Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn  
 50 55 60  
 Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe  
 65 70 75 80  
 Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys  
 85 90 95  
 Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu  
 100 105 110  
 Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu  
 115 120 125  
 Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu  
 130 135 140  
 Glu Lys Arg Glu Glu Arg Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu  
 145 150 155 160  
 Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys  
 165 170 175  
 Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile  
 180 185 190



Lys Leu Leu Lys Lys Pro Glu Lys Gly Glu Glu Pro Thr Thr Glu Lys  
 195 200  
 Pro Lys Glu Arg Gly Glu Glu Ile Asp Thr Gly Gly Gly Lys Gln Glu  
 210 215 220  
 Ser Cys Ala Pro Gly Ala Val Val Lys Ala Arg Pro Met Glu Gly Ser  
 225 230 235 240  
 Leu Glu Glu Pro Gln Glu Thr Ser His Ser Gly Ser Asp Lys Glu His  
 245 250 255  
 Arg Asp Val Glu Arg Ser Gln Glu Gln Glu Ser Glu Ala Gln Arg Tyr  
 260 265 270  
 His Val Asp Asp Gly Arg Arg His Arg Ala His His Glu Pro Glu Arg  
 275 280 285  
 Leu Ser Arg Arg Ser Glu Asp Glu Gln Arg Trp Gly Lys Gly Pro Gly  
 290 295 300  
 Gln Asp Arg Gly Lys Lys Gly Ser Gln Asp Ser Gly Ala Pro Gly Glu  
 305 310 315 320  
 Ala Met Glu Arg Leu Gly Arg Ala Gln Arg Cys Asp Asp Ser Pro Ala  
 325 330 335  
 Pro Arg Lys Glu Arg Leu Ala Asn Lys Asp Arg Pro Ala Leu Gln Leu  
 340 345 350  
 Tyr Asp Pro Gly Ala Arg Phe Arg Ala Arg Glu Cys Gly Gly Asn Arg  
 355 360 365  
 Arg Ile Cys Lys Ala Glu Gly Ser Gly Thr Gly Pro Glu Lys Arg Glu  
 370 375 380  
 Glu Ala Glu  
 385 387

&lt;210&gt; 1126

&lt;211&gt; 208

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1126

Gly Val Trp Gly Val Cys Val Ser Gly Leu Leu Gln Val Gly Ser Gln  
 1 5 10 15  
 Arg Ala Gln Ala Trp Arg Ala Trp Ser Pro Met Glu Thr Pro Leu Thr  
 20 25 30  
 Gly Thr Phe Leu Trp Pro His Ile Pro Gln Gly Leu Phe Phe Asp Asp  
 35 40 45  
 Ser Tyr Gly Phe Tyr Pro Gly Gln Val Leu Ile Gly Pro Ala Lys Ile  
 50 55 60  
 Phe Ser Ser Val Gln Trp Leu Ser Gly Val Lys Pro Val Leu Ser Thr  
 65 70 75 80  
 Lys Ser Lys Phe Arg Val Val Val Glu Glu Val Gln Val Val Glu Leu  
 85 90 95  
 Lys Val Thr Trp Ile Thr Lys Ser Phe Cys Pro Gly Gly Thr Asp Ser  
 100 105 110  
 Val Ser Pro Pro Pro Ser Val Ile Thr Gln Glu Asn Leu Gly Arg Val  
 115 120 125  
 Lys Arg Leu Gly Cys Phe Asp His Ala Gln Arg His Ala Trp Gly Ala  
 130 135 140  
 Leu Ser Val Cys Leu Pro Ser Gln Gly Arg Ala Ser Gln Asp Cys Leu  
 145 150 155 160  
 Gly Met Ser Arg Lys Lys Leu Arg Pro Gly Gly Gly Leu Tyr Gly Gln  
 165 170 175  
 Glu Gly Glu Ala Pro Val Glu Glu Ala Gly Cys Ala Asp His Val Met  
 180 185 190  
 Leu Pro Arg His Pro Val Phe Pro Gly Pro Phe His Gly Arg Pro Arg  
 195 200 205 208

<210> 1127  
 <211> 670  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1127  
 Phe Arg Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser  
 1 5 10 15  
 Gly Glu Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys  
 20 25 30  
 Lys Asp Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro  
 35 40 45  
 Asp Glu Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln  
 50 55 60  
 Cys Asp Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys  
 65 70 75 80  
 Val Asn Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser  
 85 90 95  
 Gly Glu Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys  
 100 105 110  
 Arg Asp Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys  
 115 120 125  
 Leu Asp Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile  
 130 135 140  
 Gly Tyr Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg  
 145 150 155 160  
 Arg Cys Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln  
 165 170 175  
 Leu Cys Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly  
 180 185 190  
 Phe Gln Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile  
 195 200 205  
 Ala Tyr Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu  
 210 215 220  
 Asp Arg Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val  
 225 230 235 240  
 Ala Leu Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu  
 245 250 255  
 Ser Gln Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val  
 260 265 270  
 Ser Ser Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly  
 275 280 285  
 Leu Ala Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val  
 290 295 300  
 Leu Gly Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr  
 305 310 315 320  
 Leu Phe Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro  
 325 330 335  
 Val His Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile  
 340 345 350  
 Lys Lys Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu  
 355 360 365  
 Asn Ile Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg  
 370 375 380  
 Leu Tyr Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val  
 385 390 395 400

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Asn Gly Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala
      405      410      415
His Pro Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp
      420      425      430
Ile Ile Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp
      435      440      445
Val Asn Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu
      450      455      460
Phe His Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr
      465      470      475      480
Thr Leu Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln
      485      490      495
Ile Asn Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met
      500      505      510
Leu Leu Ala Arg Asp Met Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala
      515      520      525
Val Ala Thr Gln Glu Thr Ser Thr Val Arg Leu Lys Val Ser Ser Thr
      530      535      540
Ala Val Arg Thr Gln His Thr Thr Thr Arg Pro Val Pro Asp Thr Ser
      545      550      555      560
Arg Leu Pro Gly Ala Thr Pro Gly Leu Thr Thr Val Glu Ile Val Thr
      565      570      575
Met Ser His Gln Ala Leu Gly Asp Val Ala Gly Arg Gly Asn Glu Lys
      580      585      590
Lys Pro Ser Ser Val Arg Ala Leu Ser Ile Val Leu Pro Ile Val Leu
      595      600      605
Leu Val Phe Leu Cys Leu Gly Val Phe Leu Leu Trp Lys Asn Trp Arg
      610      615      620
Leu Lys Asn Ile Asn Ser Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys
      625      630      635      640
Thr Thr Glu Asp Glu Val His Ile Cys His Asn Gln Asp Gly Tyr Ser
      645      650      655
Tyr Pro Ser Arg Gln Met Val Ser Leu Glu Asp Asp Val Ala
      660      665      670

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&lt;210&gt; 1128

&lt;211&gt; 383

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

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Arg Ile Pro Gly Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His
  1      5      10      15
Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly
      20      25      30
Pro Arg Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg
      35      40      45
Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala
      50      55      60
Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser
      65      70      75      80
Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met
      85      90      95
Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met
      100      105      110
Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu
      115      120      125
Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu
      130      135      140

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Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu  
 145 150 155 160  
 Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala  
 165 170 175  
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys  
 180 185 190  
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala  
 195 200 205  
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro  
 210 215 220  
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn  
 225 230 235 240  
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala  
 245 250 255  
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala  
 260 265 270  
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu  
 275 280 285  
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser  
 290 295 300  
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln  
 305 310 315 320  
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr  
 325 330 335  
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu  
 340 345 350  
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu  
 355 360 365  
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp  
 370 375 380 383

&lt;210&gt; 1129

&lt;211&gt; 174

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg  
 1 5 10 15  
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr  
 20 25 30  
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro  
 35 40 45  
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp  
 50 55 60  
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro  
 65 70 75 80  
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly  
 85 90 95  
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys  
 100 105 110  
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met  
 115 120 125  
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu  
 130 135 140  
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro  
 145 150 155 160  
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Ala  
 165 170 174

<210> 1130  
 <211> 231  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1130  
 Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe  
 1 5 10 15  
 Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Thr Phe Leu Gly Gly  
 20 25 30  
 Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe  
 35 40 45  
 Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser  
 50 55 60  
 Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly  
 65 70 75 80  
 Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn  
 85 90 95  
 Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser  
 100 105 110  
 Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala  
 115 120 125  
 Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr  
 130 135 140  
 Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro  
 145 150 155 160  
 Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val  
 165 170 175  
 Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg  
 180 185 190  
 Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His  
 195 200 205  
 Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn  
 210 215 220  
 Gly Asn Ser Thr Met Cys Pro  
 225 230 231

<210> 1131  
 <211> 234  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1131  
 Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg  
 1 5 10 15  
 Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu  
 20 25 30  
 Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly  
 35 40 45  
 Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala  
 50 55 60  
 Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys  
 65 70 75 80

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Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile
      85                      90                      95
Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe
      100                    105                    110
Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg
      115                    120                    125
Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr
      130                    135                    140
Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu
      145                    150                    155
Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln
      165                    170                    175
Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu
      180                    185                    190
Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala
      195                    200                    205
Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val
      210                    215                    220
Ala Ser Thr Thr Ser Ser Ser Glu Ser Leu
      225                    230                    234

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<210> 1132
<211> 270
<212> Amino acid
<213> Homo sapiens

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<400> 1132
Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser
  1      5      10      15
Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser
      20      25      30
Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val
      35      40      45
Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile
      50      55      60
Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr
      65      70      75      80
Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln
      85      90      95
Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met
      100     105     110
Asp Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg
      115     120     125
Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys
      130     135     140
Val Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu
      145     150     155
Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser
      165     170     175
Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile
      180     185     190
Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu
      195     200     205
Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
      210     215     220
Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
      225     230     235     240
Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
      245     250     255

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Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp  
 260 265 270

<210> 1133  
 <211> 204  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(204)  
 <223> X = any amino acid or stop code

<400> 1133  
 Pro Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys  
 1 5 10 15  
 Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Arg Thr  
 20 25 30  
 Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser  
 35 40 45  
 Ala Pro Val Val Phe Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met  
 50 55 60  
 Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr  
 65 70 75 80  
 Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr  
 85 90 95  
 Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly  
 100 105 110  
 Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu  
 115 120 125  
 Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro  
 130 135 140  
 Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser  
 145 150 155 160  
 Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr  
 165 170 175  
 Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu  
 180 185 190  
 Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly  
 195 200 204

<210> 1134  
 <211> 531  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1134  
 Arg Ala Cys Val Phe Arg Pro Glu Asp Met Met Gln Gly Glu Ala His  
 1 5 10 15  
 Pro Ser Ala Ser Leu Ile Asp Arg Thr Ile Lys Met Arg Lys Glu Thr  
 20 25 30  
 Glu Ala Arg Lys Val Val Leu Ala Trp Gly Leu Leu Asn Val Ser Met  
 35 40 45  
 Ala Gly Met Ile Tyr Thr Glu Met Thr Gly Lys Leu Ile Ser Ser Tyr

50  
 Tyr Asn Val Thr Tyr Trp Pro 55 Leu Trp Tyr Ile Glu 60 Leu Ala Leu Ala  
 65 70  
 Ser Leu Phe Ser Leu Asn Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys  
 85 90 95  
 Tyr Thr Val Ala Pro Thr Ser Leu Val Val Ser Pro Gly Gln Gln Thr  
 100 105 110  
 Leu Leu Gly Leu Lys Thr Ala Val Val Gln Thr Thr Pro Pro His Asp  
 115 120 125  
 Leu Ala Ala Thr Gln Ile Pro Pro Ala Pro Pro Ser Pro Ser Ile Gln  
 130 135 140  
 Gly Gln Ser Val Leu Ser Tyr Ser Ser Pro Ser Arg Ser Pro Ser Thr Ser  
 145 150 155  
 Pro Lys Phe Thr Thr Ser Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln  
 165 170 175  
 Gly Leu Ser Ser Gly Gly Ser Gly Ser Pro Gly Val Thr Tyr  
 180 185 190  
 Ser Pro Val Ser Gly Tyr Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro  
 195 200 205  
 Pro Ser Pro Tyr Pro Thr Thr Val Gly Pro Val Glu Ser Ser Gly Leu  
 210 215 220  
 Arg Ser Arg Tyr Arg Ser Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp  
 225 230 235  
 Lys Glu Asp Tyr Met Thr Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg  
 245 250 255  
 Ser Glu Glu Glu Lys Gln His Arg Val Lys Leu Gly Ser Pro Asp Ser  
 260 265 270  
 Thr Ser Pro Ser Ser Ser Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met  
 275 280 285  
 Gly Asp Tyr Ala Gln Thr Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys  
 290 295 300  
 Arg Ser Gln Ala Pro Cys Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser  
 305 310 315  
 Lys Gln Ala Ala Glu Glu Val Trp Ala Arg Val Ala Met Asn Arg Gln  
 325 330 335  
 Leu Leu Asp His Met Asp Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile  
 340 345 350  
 Asn Glu Thr Ile Leu Val Pro Leu Val Gln Glu Ile Glu Ser Val Ser  
 355 360 365  
 Thr Gln Met Arg Arg Met Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala  
 370 375 380  
 Ser Ile Thr Ser Leu Lys Gln Ala Ala Leu Val Lys Ala Pro Leu Ile  
 385 390 395  
 Pro Thr Leu Asn Thr Ile Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln  
 405 410 415  
 Glu Tyr Leu Phe Glu Arg Ile Lys Glu Leu Ser Gln Gly Gly Cys Met  
 420 425 430  
 Ser Ser Phe Arg Trp Asn Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp  
 435 440 445  
 Asp Thr Asp Leu Pro Thr Asp Ser Ala Ile Ile Met His Val Phe Cys  
 450 455 460  
 Thr Tyr Leu Asp Ser Arg Leu Pro Pro His Pro Lys Tyr Pro Asp Gly  
 465 470 475  
 Lys Thr Phe Thr Ser Gln His Phe Val Gln Thr Pro Asn Lys Pro Asp  
 485 490 495  
 Val Thr Asn Glu Asn Val Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro  
 500 505 510  
 Pro His Tyr Glu Leu Ile Tyr Gln Arg His Val Tyr Ile Pro Ala Lys  
 515 520 525  
 Gly Gln Lys  
 530 531

&lt;210&gt; 1135



<211> 508  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1135  
 Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val  
 1 5 10 15  
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser  
 20 25 30  
 Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu  
 35 40 45  
 Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser  
 50 55 60  
 Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr  
 65 70 75 80  
 Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg  
 85 90 95  
 Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val  
 100 105 110  
 Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg  
 115 120 125  
 Lys Arg Glu Ala Glu Glu Arg Arg Phe Pro Leu Glu Gln Arg Leu  
 130 135 140  
 Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala  
 145 150 155 160  
 Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu  
 165 170 175  
 Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala  
 180 185 190  
 Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile  
 195 200 205  
 Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe  
 210 215 220  
 Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu  
 225 230 235 240  
 Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu  
 245 250 255  
 Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe  
 260 265 270  
 Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys  
 275 280 285  
 Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala  
 290 295 300  
 Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn  
 305 310 315 320  
 Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr  
 325 330 335  
 Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala  
 340 345 350  
 His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr  
 355 360 365  
 Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu  
 370 375 380  
 Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu  
 385 390 395 400  
 Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val  
 405 410 415  
 His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly  
 420 425 430  
 Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

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      435              440              445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser
450              455              460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg
465              470              475              480
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg
      485              490              495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile
      500              505              508

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<210> 1136
<211> 81
<212> Amino acid
<213> Homo sapiens

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```

<400> 1136
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly
1              5              10              15
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala
      20              25              30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr
      35              40              45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly
      50              55              60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Ser Ala Asn Gln
      65              70              75              80
Gly
81

```

```

<210> 1137
<211> 260
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1137
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr
1              5              10              15
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
      20              25              30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
      35              40              45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
      50              55              60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
      65              70              75              80
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
      85              90              95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
      100              105              110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
      115              120              125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile
      130              135              140
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys

```

```

145              150              155              160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
              165              170              175
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
              180              185              190
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
              195              200              205
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
              210              215              220
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
225              230              235              240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
              245              250              255
Lys Leu Tyr Asn
              260

```

```

<210> 1138
<211> 393
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1138
Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met
1              5              10              15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala
              20              25              30
Ala Ala Ala Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Glu
              35              40              45
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp
              50              55              60
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Gln Leu Gln Glu Glu Glu
65              70              75              80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln
              85              90              95
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg
              100              105              110
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu
              115              120              125
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu
130              135              140
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val
145              150              155              160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val
              165              170              175
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn
              180              185              190
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His
              195              200              205
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala
210              215              220
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu
225              230              235              240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser
              245              250              255
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile
              260              265              270
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala
275              280              285
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Ser Val Leu Pro Pro Ser

```

```

290                295                300
Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys
305                310                315                320
Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro
                325                330                335
Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu
                340                345                350
Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg
                355                360                365
Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro
                370                375                380
Ala Arg Lys Val Lys Met Arg Arg His
385                390                393

```

<210> 1139  
 <211> 545  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1139
Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr
1                5                10                15
Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln
                20                25                30
Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln
                35                40                45
Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp
                50                55                60
Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn
                65                70                75                80
His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val
                85                90                95
Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala
                100                105                110
Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser
                115                120                125
Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp
                130                135                140
Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His
                145                150                155                160
Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu
                165                170                175
Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser
                180                185                190
Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu
                195                200                205
Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys
                210                215                220
Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His
                225                230                235                240
Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg
                245                250                255
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala
                260                265                270
Glu His Thr Pro Met Ala Pro Gly Gly Ser Thr His Arg Arg Asp Arg
                275                280                285
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly
                290                295                300
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser

```

```

305              310              315              320
Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
              325              330              335
Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
              340              345              350
Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
              355              360              365
Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
              370              375              380
Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
385              390              395              400
Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
              405              410              415
Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
              420              425              430
Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
              435              440              445
Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
              450              455              460
Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
465              470              475              480
Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
              485              490              495
Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val
              500              505              510
Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
              515              520              525
Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
530              535              540
Gln
545

```

```

<210> 1140
<211> 621
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1140
Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
1              5              10              15
Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
              20              25              30
Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
              35              40              45
Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
              50              55              60
Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
65              70              75              80
Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
              85              90              95
Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
              100              105              110
Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
115              120              125
Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
130              135              140
Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
145              150              155              160
Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

```

Tyr	Ile	Phe	Asp	His	Arg	Glu	Ser	Arg	Trp	Met	Lys	Tyr	Asn	Asp	Ile
Ala	Val	Thr	Thr	Lys	Ser	Ser	Trp	Glu	Glu	Leu	Val	Arg	Asp	Ser	Phe
Gly	Tyr	Arg	Asn	Ala	Ser	Ala	Tyr	Cys	Leu	Met	Tyr	Ile	Asn	Asp	Lys
Ala	Gln	Phe	Leu	Ile	Gln	Glu	Glu	Phe	Asn	Lys	Glu	Thr	Gly	Gln	Pro
Leu	Val	Gly	Ile	Glu	Thr	Leu	Pro	Pro	Asp	Leu	Arg	Asp	Phe	Val	Glu
Glu	Asp	Asn	Gln	Arg	Phe	Glu	Lys	Glu	Leu	Glu	Glu	Trp	Asp	Ala	Gln
Leu	Ala	Gln	Lys	Ala	Leu	Gln	Glu	Lys	Leu	Leu	Ala	Ser	Gln	Lys	Leu
Arg	Glu	Ser	Glu	Thr	Ser	Val	Thr	Thr	Ala	Gln	Ala	Ala	Gly	Asp	Pro
Lys	Tyr	Leu	Glu	Gln	Pro	Ser	Arg	Ser	Asp	Phe	Ser	Lys	His	Leu	Lys
Glu	Glu	Thr	Ile	Gln	Ile	Ile	Thr	Lys	Ala	Ser	His	Glu	His	Glu	Asp
Lys	Ser	Pro	Glu	Thr	Val	Leu	Gln	Ser	Ala	Ile	Lys	Leu	Glu	Tyr	Ala
Arg	Leu	Val	Lys	Leu	Ala	Gln	Glu	Asp	Thr	Pro	Pro	Glu	Thr	Asp	Tyr
Arg	Leu	His	His	Val	Val	Val	Tyr	Phe	Ile	Gln	Asn	Gln	Ala	Pro	Lys
Lys	Ile	Ile	Glu	Lys	Thr	Leu	Leu	Glu	Gln	Phe	Gly	Asp	Arg	Asn	Leu
Ser	Phe	Asp	Glu	Arg	Cys	His	Asn	Ile	Met	Lys	Lys	Val	Ala	Gln	Ala
Leu	Glu	Met	Ile	Lys	Pro	Glu	Glu	Val	Asn	Leu	Glu	Glu	Tyr	Glu	Glu
Trp	His	Gln	Asp	Tyr	Arg	Lys	Phe	Arg	Glu	Thr	Thr	Met	Tyr	Leu	Ile
Ile	Gly	Leu	Glu	Asn	Phe	Gln	Arg	Glu	Ser	Tyr	Ile	Asp	Ser	Leu	Leu
Phe	Leu	Ile	Cys	Ala	Tyr	Gln	Asn	Asn	Lys	Glu	Leu	Leu	Ser	Lys	Gly
Leu	Tyr	Arg	Gly	His	Asp	Glu	Glu	Leu	Ile	Ser	His	Tyr	Arg	Arg	Glu
Cys	Leu	Leu	Lys	Leu	Asn	Glu	Gln	Ala	Ala	Glu	Leu	Phe	Glu	Ser	Gly
Glu	Asp	Arg	Glu	Val	Asn	Asn	Gly	Leu	Ile	Ile	Met	Asn	Glu	Phe	Ile
Val	Pro	Phe	Phe	Pro	Leu	Leu	Leu	Val	Asp	Glu	Met	Glu	Glu	Lys	Asp
Ile	Leu	Ala	Val	Glu	Asp	Met	Arg	Asn	Arg	Trp	Cys	Ser	Tyr	Leu	Gly
Gln	Glu	Met	Glu	Pro	His	Leu	Gln	Glu	Lys	Leu	Thr	Asp	Phe	Leu	Pro
Lys	Leu	Leu	Asp	Cys	Ser	Met	Glu	Ile	Lys	Ser	Phe	His	Glu	Pro	Pro
Lys	Leu	Pro	Ser	Tyr	Ser	Thr	His	Glu	Leu	Cys	Glu	Arg	Phe	Ala	Arg
Ile	Met	Leu	Ser	Leu	Ser	Arg	Thr	Pro	Ala	Asp	Gly	Arg	Glu		

&lt;210&gt; 1141

<211> 154

<212>Amino acid

<213> Homo sapiens

```

<400> 1141
Ala Gln Val Tyr Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg
 1           5           10           15
Pro Ser Gly Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val
          20           25           30
His Ser Asn Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile
          35           40           45
Gln Ser Ala Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His
          50           55           60
Met Val Pro Ile Val His His Val Lys Glu His His Phe Gly Ser Ser
          65           70           75           80
Gly Met Thr Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr
          85           90           95
Glu Gln Glu Ala Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg
          100          105          110
Ile Asp Ile Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp
          115          120          125
Glu Met Lys Ser Pro Arg Glu Pro Gly Tyr Lys Asp Gly His Asn Ser
          130          135          140
Lys Asn Glu Leu Gln Arg Val Asn Phe Tyr
          145          150          154

```

```

<210> 1142
<211> 121
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1142
Thr Tyr Thr Phe Cys Phe Ser Leu Met Ile Ile Leu Leu Thr Ile Ile
 1           5           10           15
Gln Gly Leu Ile Leu Glu Ala Phe Gly Glu Leu Arg Asp Gln Leu Asp
          20           25           30
Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly
          35           40           45
Asn Asp Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu
          50           55           60
Gln Glu His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile
          65           70           75           80
Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys
          85           90           95
Met Tyr Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe
          100          105          110
Arg Lys Gln Tyr Glu Asp Gln Leu Asn
          115          120          121

```

```

<210> 1143
<211> 851
<212> Amino acid
<213> Homo sapiens

```

<400> 1143  
Phe Arg Arg Lys Gly Gly Gly Gly Pro Lys Asp Phe Gly Ala Gly Leu  
1 5 10 15  
Lys Tyr Asn Ser Arg His Glu Lys Val Asn Gly Leu Glu Gly Val  
20 25 30  
Glu Phe Leu Pro Val Asn Asn Val Lys Lys Val Glu Lys His Gly Pro  
35 40 45  
Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly Leu Leu Leu Val  
50 55 60  
Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln Tyr Arg Asp Val  
65 70 75 80  
Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile Thr Asn Glu Asn  
85 90 95  
Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu Phe Val Ser Leu  
100 105 110  
Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr Ser Gly Val Pro  
115 120 125  
Phe Leu Gly Pro Tyr His Lys Glu Ser Ala Val Thr Ala Phe Ser Glu  
130 135 140  
Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser Ile Pro Gln His  
145 150 155 160  
Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu Arg Val Val Met  
165 170 175  
Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val Val Thr Ser Val  
180 185 190  
Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg Thr Gln Asp Asn  
195 200 205  
Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu Leu Met Arg Phe  
210 215 220  
Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala His Ala Arg Cys  
225 230 235 240  
Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu Ser Leu Thr Phe  
245 250 255  
Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly Arg His Leu Val  
260 265 270  
Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His Ala Leu Val Gln  
275 280 285  
Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr Phe His Ser Ser  
290 295 300  
Gln Asn Val Leu Leu Ile Thr Leu Ile Thr Asn Thr Glu Arg Arg His  
305 310 315 320  
Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Arg Met Ser Ser Cys  
325 330 335  
Gly Gly Arg Leu Arg Lys Ala Gln Gly Thr Phe Asn Ser Pro Tyr Tyr  
340 345 350  
Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp Asn Ile Glu Val  
355 360 365  
Pro Asn Asn Gln His Val Lys Val Arg Phe Lys Phe Phe Tyr Leu Leu  
370 375 380  
Glu Pro Gly Val Pro Ala Gly Thr Cys Pro Lys Asp Tyr Val Glu Ile  
385 390 395 400  
Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe Val Val Thr Ser  
405 410 415  
Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp Gln Ser Tyr Thr  
420 425 430  
Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp Ser Ser Asp Pro  
435 440 445  
Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys Ile Arg Lys Glu  
450 455 460  
Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His Ser Asp Glu Leu  
465 470 475 480  
Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr Cys Lys Asn Lys Phe  
485 490 495  
Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Leu Asn Asp Cys Gly Asp



500 505 510  
 Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys  
 515 520 525  
 Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp  
 530 535 540  
 Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val  
 545 550 555 560  
 Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu  
 565 570 575  
 Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly  
 580 585 590  
 Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln  
 595 600 605  
 Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp  
 610 615 620  
 Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser  
 625 630 635 640  
 Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp  
 645 650 655  
 Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu  
 660 665 670  
 Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg  
 675 680 685  
 Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe  
 690 695 700  
 Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser  
 705 710 715 720  
 Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro  
 725 730 735  
 Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly  
 740 745 750  
 Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn  
 755 760 765  
 Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met  
 770 775 780  
 Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp  
 785 790 795 800  
 Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln  
 805 810 815  
 Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro  
 820 825 830  
 Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn  
 835 840 845  
 Thr Gly Val  
 850 851

&lt;210&gt; 1144

&lt;211&gt; 346

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (346)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1144

Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr  
 1 5 10 15

```

Asp Cys Ser Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser
      20      25
Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu
      35      40      45
Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro
      50      55      60
Glu Val Phe Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro
      65      70      75      80
Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Asp Lys Tyr
      85      90      95
Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn
      100      105      110
Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His
      115      120      125
Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys
      130      135      140
Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser
      145      150      155      160
Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile
      165      170      175
Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser
      180      185      190
Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser
      195      200      205
Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser
      210      215      220
Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala
      225      230      235      240
Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu
      245      250      255
Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe
      260      265      270
Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp
      275      280      285
Lys Met Ala Asp Asn Leu Leu Ala Ala Asp Lys Tyr Ala Leu Glu
      290      295      300
Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val
      305      310      315      320
Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg
      325      330      335
Thr Val Glu Ser Thr Ser His Arg Leu Tyr
      340      345      346

```

&lt;210&gt; 1145

&lt;211&gt; 339

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (339)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1145

```

Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val
  1           5           10           15
Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly
      20      25      30
Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

```

```

      35              40              45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro
   50              55              60
Gly Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln
   65              70              75
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg
      85              90              95
Trp Arg Leu Xaa Ala Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr
      100              105              110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu
      115              120              125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His
      130              135              140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala
      145              150              155
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu
      165              170              175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg
      180              185              190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala
      195              200              205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His
      210              215              220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu
      225              230              235
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe
      245              250              255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile
      260              265              270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys
      275              280              285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln
      290              295              300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu Glu
      305              310              315
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser
      325              330              335
Lys Pro Gln
      339

```

&lt;210&gt; 1146

&lt;211&gt; 425

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(425)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1146

```

Ala Ala Ala Leu Val Ala Glu Tyr Leu Ala Leu Leu Glu Asp His Arg
   1              5              10              15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val
      20              25              30
Leu Glu Glu Ser Ala Ile Ser Asp Asp Ile Leu Ser Pro Asp Glu Glu
      35              40              45
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu
      50              55              60

```

```

Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala
65          70          75          80
Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg
85          90
Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe
100         105         110
Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr
115         120         125
Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu
130         135         140
Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile
145         150         155         160
Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val
165         170         175
Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp
180         185         190
Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp
195         200         205
Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly
210         215         220
Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala
225         230         235         240
His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr
245         250         255
Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg
260         265         270
Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln
275         280         285
Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp
290         295         300
Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val
305         310         315         320
Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro
325         330         335
Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe
340         345         350
Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala
355         360         365
Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn
370         375         380
Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu
385         390         395         400
Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn
405         410         415
Arg Ala Ser Phe Arg Lys Ala Asp Leu
420         425

```

&lt;210&gt; 1147

&lt;211&gt; 198

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(198)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1147

Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

```

1           5           10           15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala
20           25           30
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg
35           40           45
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ala Asp His
50           55           60
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu
65           70           75           80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe
85           90           95
Gly Gly Ala Ser Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu
100          105          110
His Gly Glu Gly Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro
115          120          125
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala
130          135          140
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys
145          150          155          160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile
165          170          175
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg
180          185          190
Gly Gln Gly Arg Asn Leu
195          198

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&lt;210&gt; 1148

&lt;211&gt; 317

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1148

```

Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala
1           5           10           15
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg
20           25           30
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr
35           40           45
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu
50           55           60
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu
65           70           75           80
Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser Val Asp Ser Trp
85           90           95
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly
100          105          110
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg
115          120          125
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys
130          135          140
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu
145          150          155          160
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu
165          170          175
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro
180          185          190
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly
195          200          205
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu

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210						215						220					
Gln	Ala	Ser	Val	Gln	Val	Ile	Asp	Ser	Thr	Arg	Cys	Asn	Ala	Asp	Asp		
225						230						235				240	
Ala	Tyr	Gln	Gly	Glu	Val	Thr	Glu	Lys	Met	Met	Cys	Ala	Gly	Ile	Pro		
				245						250				255			
Glu	Gly	Gly	Val	Asp	Thr	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Met		
		260						265					270				
Tyr	Gln	Ser	Asp	Gln	Trp	His	Val	Val	Gly	Ile	Val	Ser	Trp	Gly	Tyr		
		275					280					285					
Gly	Cys	Gly	Gly	Pro	Ser	Thr	Pro	Gly	Val	Tyr	Thr	Lys	Val	Ser	Ala		
		290				295					300						
Tyr	Leu	Asn	Trp	Ile	Tyr	Asn	Val	Trp	Lys	Ala	Glu	Leu					
305					310					315	317						

<210> 1149  
 <211> 320  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1149

Thr	Ile	Ser	Thr	Val	Arg	Trp	Asn	Ser	Arg	Ile	Gly	Met	Val	Leu	Gly		
1				5					10					15			
Val	Ala	Ile	Gln	Lys	Arg	Ala	Val	Pro	Gly	Leu	Tyr	Ala	Phe	Glu	Glu		
			20					25					30				
Ala	Tyr	Ala	Arg	Ala	Asp	Lys	Glu	Ala	Pro	Arg	Pro	Cys	His	Lys	Gly		
		35					40					45					
Ser	Trp	Cys	Ser	Ser	Asn	Gln	Leu	Cys	Arg	Glu	Cys	Gln	Ala	Phe	Met		
	50				55					60							
Ala	His	Thr	Met	Pro	Lys	Leu	Lys	Ala	Phe	Ser	Met	Ser	Ser	Ala	Tyr		
	65				70				75					80			
Asn	Ala	Tyr	Arg	Ala	Val	Tyr	Ala	Val	Ala	His	Gly	Leu	His	Gln	Leu		
			85					90					95				
Leu	Gly	Cys	Ala	Ser	Gly	Ala	Cys	Ser	Arg	Gly	Arg	Val	Tyr	Pro	Trp		
		100					105						110				
Gln	Leu	Leu	Glu	Gln	Ile	His	Lys	Val	His	Phe	Leu	Leu	His	Lys	Asp		
	115					120						125					
Thr	Val	Ala	Phe	Asn	Asp	Asn	Arg	Asp	Pro	Leu	Ser	Ser	Tyr	Asn	Ile		
	130				135						140						
Ile	Ala	Trp	Asp	Trp	Asn	Gly	Pro	Lys	Trp	Thr	Phe	Thr	Val	Leu	Gly		
	145				150					155				160			
Ser	Ser	Thr	Trp	Ser	Pro	Val	Gln	Leu	Asn	Ile	Asn	Glu	Thr	Lys	Ile		
			165					170					175				
Gln	Trp	His	Gly	Lys	Asp	Asn	Gln	Val	Pro	Lys	Ser	Val	Cys	Ser	Ser		
	180						185						190				
Asp	Cys	Leu	Glu	Gly	His	Gln	Arg	Val	Val	Thr	Gly	Phe	His	His	Cys		
	195					200						205					
Cys	Phe	Glu	Cys	Val	Pro	Cys	Gly	Ala	Gly	Thr	Phe	Leu	Asn	Lys	Ser		
	210				215					220							
Ser	Tyr	Leu	Gly	Lys	Asp	Leu	Pro	Glu	Asn	Tyr	Asn	Glu	Ala	Lys	Cys		
	225				230				235				240				
Val	Thr	Phe	Ser	Leu	Leu	Phe	Asn	Phe	Val	Ser	Trp	Ile	Ala	Phe	Phe		
		245						250					255				
Thr	Thr	Ala	Ser	Val	Tyr	Asp	Gly	Lys	Tyr	Leu	Pro	Ala	Ala	Asn	Met		
	260					265						270					
Met	Ala	Gly	Leu	Ser	Ser	Leu	Ser	Ser	Gly	Phe	Gly	Gly	Tyr	Phe	Leu		
	275					280						285					
Pro	Lys	Cys	Tyr	Val	Ile	Leu	Cys	Arg	Pro	Asp	Leu	Asn	Ser	Thr	Glu		
	290				295					300							
His	Phe	Gln	Ala	Ser	Ile	Gln	Asp	Tyr	Thr	Arg	Arg	Cys	Gly	Ser	Thr		

305

310

315

320

<210> 1150  
 <211> 458  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1150  
 Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser  
 1 5 10 15  
 Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser  
 20 25 30  
 Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu  
 35 40 45  
 His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala  
 50 55 60  
 Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile  
 65 70 75 80  
 Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln  
 85 90 95  
 Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro  
 100 105 110  
 Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr  
 115 120 125  
 Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe  
 130 135 140  
 Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys  
 145 150 155 160  
 Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu  
 165 170 175  
 Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn  
 180 185 190  
 Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser  
 195 200 205  
 Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe  
 210 215 220  
 Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val  
 225 230 235 240  
 Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val  
 245 250 255  
 Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn  
 260 265 270  
 Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala  
 275 280 285  
 Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln  
 290 295 300  
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu  
 305 310 315 320  
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu  
 325 330 335  
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His  
 340 345 350  
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu  
 355 360 365  
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser  
 370 375 380  
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

385				390				395				400
Pro	Pro	Gly	Pro	Pro	Ala	Val	Glu	Asp	Val	Ser	Leu	Asp
				405				410				415
Glu	Glu	Gly	Glu	Glu	Glu	Glu	Glu	Tyr	Leu	Asp	Lys	Ile
				420				425				430
Tyr	Asp	Ala	Leu	Ser	Tyr	Ser	Ser	Pro	Ser	Asp	Ser	Tyr
				435				440				445
Gly	Phe	Val	Met	Ser	Arg	Ala	Met	Tyr	Val			
				450				455				458

<210> 1151  
 <211> 608  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1151

Gly	Thr	Arg	Leu	Arg	Glu	Asp	Lys	Asn	His	Asn	Met	Tyr	Val	Ala	Gly
1				5				10						15	
Cys	Thr	Glu	Val	Glu	Val	Lys	Ser	Thr	Glu	Glu	Ala	Phe	Glu	Val	Phe
				20				25					30		
Trp	Arg	Gly	Gln	Lys	Lys	Arg	Arg	Ile	Ala	Asn	Thr	His	Leu	Asn	Arg
				35				40				45			
Glu	Ser	Ser	Arg	Ser	His	Ser	Val	Phe	Asn	Ile	Lys	Leu	Val	Gln	Ala
				50				55			60				
Pro	Leu	Asp	Ala	Asp	Gly	Asp	Asn	Val	Leu	Gln	Glu	Lys	Glu	Gln	Ile
				65				70			75			80	
Thr	Ile	Ser	Gln	Leu	Ser	Leu	Val	Asp	Leu	Ala	Gly	Ser	Glu	Arg	Thr
				85				90					95		
Asn	Arg	Thr	Arg	Ala	Glu	Gly	Asn	Arg	Leu	Arg	Glu	Ala	Gly	Asn	Ile
				100				105					110		
Asn	Gln	Ser	Leu	Met	Thr	Leu	Arg	Thr	Cys	Met	Asp	Val	Leu	Arg	Glu
				115				120					125		
Asn	Gln	Met	Tyr	Gly	Thr	Asn	Lys	Met	Val	Pro	Tyr	Arg	Asp	Ser	Lys
				130				135				140			
Leu	Thr	His	Leu	Phe	Lys	Asn	Tyr	Phe	Asp	Gly	Glu	Gly	Lys	Val	Arg
				145				150			155			160	
Met	Ile	Val	Cys	Val	Asn	Pro	Lys	Ala	Glu	Asp	Tyr	Glu	Glu	Asn	Leu
				165				170						175	
Gln	Val	Met	Arg	Phe	Ala	Glu	Val	Thr	Gln	Glu	Val	Glu	Val	Ala	Arg
				180				185						190	
Pro	Val	Asp	Lys	Ala	Ile	Cys	Gly	Leu	Thr	Pro	Gly	Arg	Arg	Tyr	Arg
				195				200				205			
Asn	Gln	Pro	Arg	Gly	Pro	Ile	Gly	Asn	Glu	Pro	Leu	Val	Thr	Asp	Val
				210				215				220			
Val	Leu	Gln	Ser	Phe	Pro	Pro	Leu	Pro	Ser	Cys	Glu	Ile	Leu	Asp	Ile
				225				230			235			240	
Asn	Asp	Glu	Gln	Thr	Leu	Pro	Arg	Leu	Ile	Glu	Ala	Leu	Glu	Lys	Arg
				245				250					255		
His	Asn	Leu	Arg	Gln	Met	Met	Ile	Asp	Glu	Phe	Asn	Lys	Gln	Ser	Asn
				260				265					270		
Ala	Phe	Lys	Ala	Leu	Leu	Gln	Glu	Phe	Asp	Asn	Ala	Val	Leu	Ser	Lys
				275				280				285			
Glu	Asn	His	Met	Gln	Gly	Lys	Leu	Asn	Glu	Lys	Glu	Lys	Met	Ile	Ser
				290				295				300			
Gly	Gln	Lys	Leu	Glu	Ile	Glu	Arg	Leu	Glu	Lys	Lys	Asn	Lys	Thr	Leu
				305				310			315			320	
Glu	Tyr	Lys	Ile	Glu	Ile	Leu	Glu	Lys	Thr	Thr	Thr	Ile	Tyr	Glu	Glu
				325				330						335	
Asp	Lys	Arg	Asn	Leu	Gln	Gln	Glu	Leu	Glu	Thr	Gln	Asn	Gln	Lys	Leu



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      340      345      350
Gln Arg Gln Phe Ser Asp Lys Arg Arg Leu Glu Ala Arg Leu Gln Gly
      355      360      365
Met Val Thr Glu Thr Thr Met Lys Trp Glu Lys Glu Cys Glu Arg Arg
      370      375      380
Val Ala Ala Lys Gln Leu Glu Met Gln Asn Lys Leu Trp Val Lys Asp
      385      390      395      400
Glu Lys Leu Lys Gln Leu Lys Ala Ile Val Thr Glu Pro Lys Thr Glu
      405      410      415
Lys Pro Glu Arg Pro Ser Arg Glu Arg Asp Arg Glu Lys Val Thr Gln
      420      425      430
Arg Ser Val Ser Pro Ser Pro Val Pro Leu Leu Phe Gln Pro Asp Gln
      435      440      445
Asn Ala Pro Pro Ile Arg Leu Arg His Arg Arg Ser Arg Ser Ala Gly
      450      455      460
Asp Arg Trp Val Asp His Lys Pro Ala Ser Asn Met Gln Thr Glu Thr
      465      470      475      480
Val Met Gln Pro His Val Pro His Ala Ile Thr Val Ser Val Ala Asn
      485      490      495
Glu Lys Ala Leu Ala Lys Cys Glu Lys Tyr Met Leu Thr His Gln Glu
      500      505      510
Leu Ala Ser Asp Gly Glu Ile Glu Thr Lys Leu Ile Lys Gly Asp Ile
      515      520      525
Tyr Lys Thr Arg Gly Gly Gly Gln Ser Val Gln Phe Thr Asp Ile Glu
      530      535      540
Thr Leu Lys Gln Glu Ser Pro Asn Gly Ser Arg Lys Arg Arg Ser Ser
      545      550      555      560
Thr Val Ala Pro Ala Gln Pro Asp Gly Ala Glu Ser Glu Trp Thr Asp
      565      570      575
Val Glu Thr Arg Cys Ser Val Ala Val Glu Met Arg Ala Gly Ser Gln
      580      585      590
Leu Gly Pro Gly Tyr Gln His His Ala Gln Pro Lys Arg Lys Lys Pro
      595      600      605      608

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<210> 1152  
 <211> 111  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1152
Pro Phe Ser Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe Gly
1      5      10      15
Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly Phe
      20      25      30
Ala Asp Phe Ser Gln Met Ser Lys Gly Lys Ser Thr Pro Val Ser Gln
      35      40      45
Leu Gly Ser Ala Asp Phe Pro Glu Ala Pro Asp Pro Phe Gln Pro Leu
      50      55      60
Gly Ala Asp Ser Gly Asp Pro Phe Gln Ser Lys Lys Gly Phe Gly Asp
      65      70      75      80
Pro Phe Ser Gly Lys Asp Pro Phe Val Pro Ser Ser Ala Ala Lys Pro
      85      90      95
Ser Lys Ala Ser Ala Ser Gly Phe Ala Asp Phe Thr Ser Val Ser
      100      105      110      111

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<210> 1153

<211> 444  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1153  
 Met Ser Leu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val  
 1 5 10 15  
 Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser  
 20 25 30  
 Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg  
 35 40 45  
 Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp  
 50 55 60  
 Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe  
 65 70 75 80  
 Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg  
 85 90 95  
 Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro  
 100 105 110  
 Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala  
 115 120 125  
 His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys  
 130 135 140  
 Trp Ser Asp Ile Met Phe Glu His Phe Phe Leu His Lys Glu Gly Ile  
 145 150 155 160  
 Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser  
 165 170 175  
 Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr  
 180 185 190  
 Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala  
 195 200 205  
 Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro  
 210 215 220  
 Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val  
 225 230 235 240  
 Thr Leu Ser Cys Ser Ser Arg Ser Ser Tyr Asp Met Tyr His Leu Ser  
 245 250 255  
 Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val  
 260 265 270  
 Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly  
 275 280 285  
 Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp  
 290 295 300  
 Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser  
 305 310 315 320  
 Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro  
 325 330 335  
 Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe  
 340 345 350  
 Ile Leu Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys  
 355 360 365  
 Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn  
 370 375 380  
 Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln  
 385 390 395 400  
 Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln  
 405 410 415  
 Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro  
 420 425 430  
 Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

435

440

444

<210> 1154  
 <211> 522  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1154  
 Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val  
 1 5 10 15  
 Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr  
 20 25 30  
 Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala  
 35 40 45  
 Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly  
 50 55 60  
 Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile  
 65 70 75 80  
 Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn  
 85 90 95  
 Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser  
 100 105 110  
 Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys  
 115 120 125  
 Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu  
 130 135 140  
 Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala  
 145 150 155 160  
 Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe  
 165 170 175  
 Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala  
 180 185 190  
 Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro  
 195 200 205  
 Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr  
 210 215 220  
 Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu  
 225 230 235 240  
 Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn  
 245 250 255  
 Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val  
 260 265 270  
 Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn  
 275 280 285  
 Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu  
 290 295 300  
 Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp  
 305 310 315 320  
 Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Glu Pro Asp Lys Glu  
 325 330 335  
 Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser  
 340 345 350  
 Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys  
 355 360 365  
 Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn  
 370 375 380  
 Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe  
 385 390 395 400  
 Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Leu Tyr



290 295 300  
 Ala Thr Ser Leu Arg Leu Gln Ile Lys Arg Cys Ala Gly Val Ala Gly  
 305 310 315 320  
 Ser Leu Ser Leu Val Leu Ser Thr Cys Lys Asn Ile Tyr Ser Leu Met  
 325 330 335  
 Val Glu Ala Ser Pro Leu Thr Ile Glu Asp Glu Arg His Ile Thr Ser  
 340 345 350  
 Val Thr Asn Leu Lys Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg  
 355 360 365  
 Leu Pro Gly Gly Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr  
 370 375 380  
 Lys Leu Ile Met Asp Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys  
 385 390 395 400  
 Leu Ala Glu Gly Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu  
 405 410 415  
 Thr His Leu Ser Asp Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser  
 420 425 430  
 Leu Ser Ser Glu Pro Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys  
 435 440 445  
 Cys Leu Ser Ala Asn Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn  
 450 455 460  
 Leu Val Lys Leu Ser Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys  
 465 470 475 480  
 Asp Gly Asn Glu Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu  
 485 490 495  
 Glu Gln Leu Thr Ala Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly  
 500 505 510  
 Ser Leu Ser Ser Leu Leu Lys His Leu Glu Glu Val Pro Gln Leu Val  
 515 520 525  
 Lys Leu Gly Leu Lys Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile  
 530 535 540  
 Leu Gly Ala Phe Phe Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu  
 545 550 555 560  
 Asn Leu Ala Gly Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met  
 565 570 575  
 Gly Val Phe Glu Asn Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr  
 580 585 590  
 Lys Glu Phe Leu Pro Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val  
 595 600 605  
 Leu Ser Lys Leu Thr Phe Leu Gln Glu Ala Arg Leu Val Gly Trp Gln  
 610 615 620  
 Phe Asp Asp Asp Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val  
 625 630 635 640  
 Thr Ala  
 642

&lt;210&gt; 1156

&lt;211&gt; 125

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(125)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1156

Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg  
 1 5 10 15

```

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg
      20      25      30
Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro
      35      40      45
Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
      50      55      60
Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val
      65      70      75      80
Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln
      85      90      95
Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln
      100      105      110
Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly
      115      120      125

```

```

<210> 1157
<211> 91
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(91)
<223> X = any amino acid or stop code

```

```

<400> 1157
Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg
 1      5      10      15
Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe
      20      25      30
Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile
      35      40      45
Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg
      50      55      60
Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala
      65      70      75      80
Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu
      85      90      91

```

```

<210> 1158
<211> 254
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(254)
<223> X = any amino acid or stop code

```

```

<400> 1158
Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe
 1      5      10      15
Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys
      20      25      30

```

Gly Ser Leu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu  
           35                  40                  45  
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met  
           50                  55                  60  
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly  
           65                  70                  75                  80  
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu  
                   85                  90                  95  
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val  
           100                  105                  110  
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg  
           115                  120                  125  
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp  
           130                  135                  140  
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser  
           145                  150                  155                  160  
 Leu Ala Ile Xaa His Pro Phe Glu Gly Ala Ser Val Arg Asn Lys Ala  
                   165                  170                  175  
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile  
           180                  185                  190  
 Ser Gly Val Gln Lys Ser Lys Lys Asn Gly Pro Ile Asp Trp Glu Trp  
           195                  200                  205  
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Ser Gly Val Leu Arg Val  
           210                  215                  220  
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg  
           225                  230                  235                  240  
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn  
                   245                  250                  254

&lt;210&gt; 1159

&lt;211&gt; 162

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1159

Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala  
           1                  5                  10                  15  
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr  
           20                  25                  30  
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro  
           35                  40                  45  
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln  
           50                  55                  60  
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu  
           65                  70                  75                  80  
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile  
                   85                  90                  95  
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu  
           100                  105                  110  
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu  
           115                  120                  125  
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met  
           130                  135                  140  
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr  
           145                  150                  155                  160  
 Val His  
           162

<210> 1160  
 <211> 295  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1160  
 His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu  
 1 5 10 15  
 Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp  
 20 25 30  
 Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu  
 35 40 45  
 Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys  
 50 55 60  
 Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg  
 65 70 75 80  
 Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser  
 85 90 95  
 Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg  
 100 105 110  
 Val Gly Asp Phe Asn Glu Ser Thr Tyr Tyr Met Glu Gly Asn Leu Gly  
 115 120 125  
 His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys  
 130 135 140  
 Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly  
 145 150 155 160  
 Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu  
 165 170 175  
 Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys  
 180 185 190  
 Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu  
 195 200 205  
 Phe Thr Ser Gly Asp Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe  
 210 215 220  
 Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly  
 225 230 235 240  
 Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn  
 245 250 255  
 Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg  
 260 265 270  
 Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr  
 275 280 285  
 Ser Pro Thr Ile Val Lys Glu  
 290 295

<210> 1161  
 <211> 1621  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(1621)  
 <223> X = any amino acid or stop code



<400> 1161  
Met Ala Lys Ser Gly Gly Cys Gly Ala Gly Ala Gly Val Gly Gly Gly  
1 5 10 15  
Asn Gly Ala Leu Thr Trp Val Asn Asn Ala Ala Lys Lys Glu Glu Ser  
20 25 30  
Glu Thr Ala Asn Lys Asn Asp Ser Ser Lys Lys Leu Ser Val Glu Arg  
35 40 45  
Val Tyr Gln Lys Lys Thr Gln Leu Glu His Ile Leu Leu Arg Pro Asp  
50 55 60  
Thr Tyr Ile Gly Ser Val Glu Pro Leu Thr Gln Phe Met Trp Val Tyr  
65 70 75 80  
Asp Glu Asp Val Gly Met Asn Cys Arg Glu Val Thr Phe Val Pro Gly  
85 90 95  
Leu Tyr Lys Ile Phe Asp Glu Ile Leu Val Asn Ala Ala Asp Asn Lys  
100 105 110  
Gln Arg Asp Lys Asn Met Thr Cys Ile Lys Val Ser Ile Asp Pro Glu  
115 120 125  
Ser Asn Ile Ile Ser Ile Trp Asn Asn Gly Lys Gly Ile Pro Val Val  
130 135 140  
Glu His Lys Val Glu Lys Val Tyr Val Pro Ala Leu Ile Phe Gly Gln  
145 150 155 160  
Leu Leu Thr Ser Ser Asn Tyr Asp Asp Asp Glu Lys Lys Val Thr Gly  
165 170 175  
Gly Arg Asn Gly Tyr Gly Ala Lys Leu Cys Asn Ile Phe Ser Thr Lys  
180 185 190  
Phe Thr Val Glu Thr Ala Cys Lys Glu Tyr Lys His Ser Phe Lys Gln  
195 200 205  
Thr Trp Met Asn Asn Met Met Lys Thr Ser Glu Ala Lys Ile Lys His  
210 215 220  
Phe Asp Gly Glu Asp Tyr Thr Cys Ile Thr Phe Gln Pro Asp Leu Ser  
225 230 235 240  
Lys Phe Lys Met Glu Lys Leu Asp Lys Asp Ile Val Ala Leu Met Thr  
245 250 255  
Arg Arg Ala Tyr Asp Leu Ala Gly Ser Cys Arg Gly Val Lys Val Met  
260 265 270  
Phe Asn Gly Lys Lys Leu Pro Val Asn Gly Phe Arg Ser Tyr Val Asp  
275 280 285  
Leu Tyr Val Lys Asp Lys Leu Asp Glu Thr Gly Val Ala Leu Lys Val  
290 295 300  
Ile His Glu Leu Ala Asn Glu Arg Trp Asp Val Cys Leu Thr Leu Ser  
305 310 315 320  
Glu Lys Gly Phe Gln Gln Ile Ser Phe Val Asn Ser Ile Ala Thr Thr  
325 330 335  
Lys Gly Gly Arg His Val Asp Tyr Val Val Asp Gln Val Val Gly Lys  
340 345 350  
Leu Ile Glu Val Val Lys Lys Lys Asn Lys Ala Gly Val Ser Val Lys  
355 360 365  
Pro Phe Gln Val Lys Asn His Ile Trp Val Phe Ile Asn Cys Leu Ile  
370 375 380  
Glu Asn Pro Thr Phe Asp Ser Gln Thr Lys Glu Asn Met Thr Leu Gln  
385 390 395 400  
Pro Lys Ser Phe Gly Ser Lys Cys Gln Leu Ser Glu Lys Phe Phe Lys  
405 410 415  
Ala Ala Ser Asn Cys Gly Ile Val Glu Ser Ile Leu Asn Trp Val Lys  
420 425 430  
Phe Lys Ala Gln Thr Gln Leu Asn Lys Lys Cys Ser Ser Val Lys Tyr  
435 440 445  
Ser Lys Ile Lys Gly Ile Pro Lys Leu Asp Asp Ala Asn Asp Ala Gly  
450 455 460  
Gly Lys His Ser Leu Glu Cys Thr Leu Ile Leu Thr Glu Gly Asp Ser  
465 470 475 480  
Ala Lys Ser Leu Ala Val Ser Gly Leu Gly Val Ile Gly Arg Asp Arg  
485 490 495  
Tyr Gly Val Phe Pro Leu Arg Gly Lys Ile Leu Asn Val Arg Glu Ala

	500		505		510
Ser His	Lys Gln Ile Met Glu Asn Ala Glu Ile Asn Asn Ile Ile Lys				
	515		520		525
Ile Val	Gly Leu Gln Tyr Lys Lys Ser Tyr Asp Asp Ala Gln Ser Leu				
	530		535		540
Lys Thr	Leu Arg Tyr Gly Lys Ile Met Ile Met Thr Asp Gln Asp Gln				
	545		550		555
Asp Gly	Ser His Ile Lys Gly Leu Leu Ile Asn Phe Ile His His Asn				
	565		570		575
Trp Pro	Ser Leu Leu Lys His Gly Phe Leu Glu Glu Phe Ile Thr Pro				
	580		585		590
Ile Val	Lys Ala Ser Lys Asn Lys Gln Glu Leu Ser Phe Tyr Ser Ile				
	595		600		605
Pro Glu	Phe Asp Glu Trp Lys Lys His Ile Glu Asn Gln Lys Ala Trp				
	610		615		620
Lys Ile	Lys Tyr Tyr Lys Gly Leu Gly Thr Ser Thr Ala Lys Glu Ala				
	625		630		635
Lys Glu	Tyr Phe Ala Asp Met Glu Arg His Arg Ile Leu Phe Arg Tyr				
	645		650		655
Ala Gly	Pro Glu Asp Asp Ala Ala Ile Thr Leu Ala Phe Ser Lys Lys				
	660		665		670
Lys Ile	Asp Asp Arg Lys Glu Trp Leu Thr Asn Phe Met Glu Asp Arg				
	675		680		685
Arg Gln	Arg Arg Leu His Gly Leu Pro Glu Gln Phe Leu Tyr Gly Thr				
	690		695		700
Ala Thr	Lys His Leu Thr Tyr Asn Asp Phe Ile Asn Lys Glu Leu Ile				
	705		710		715
Leu Phe	Ser Asn Ser Asp Asn Glu Arg Ser Ile Pro Ser Leu Val Asp				
	725		730		735
Gly Phe	Lys Pro Gly Gln Arg Lys Val Leu Phe Thr Cys Phe Lys Arg				
	740		745		750
Asn Asp	Lys Arg Glu Val Lys Val Ala Gln Leu Ala Gly Ser Val Ala				
	755		760		765
Glu Met	Ser Ala Tyr His His Gly Glu Gln Ala Leu Met Met Thr Ile				
	770		775		780
Val Asn	Leu Ala Gln Asn Phe Val Gly Ser Asn Asn Ile Asn Leu Leu				
	785		790		795
Gln Pro	Ile Gly Gln Phe Gly Thr Arg Leu His Gly Gly Lys Asp Ala				
	805		810		815
Ala Ser	Pro Arg Tyr Ile Phe Thr Met Leu Ser Thr Leu Ala Arg Leu				
	820		825		830
Leu Phe	Pro Ala Val Asp Asp Asn Leu Leu Lys Phe Leu Tyr Asp Asp				
	835		840		845
Asn Gln	Arg Val Glu Pro Glu Trp Tyr Ile Pro Ile Ile Pro Met Val				
	850		855		860
Leu Ile	Asn Gly Ala Glu Gly Ile Gly Thr Gly Trp Ala Cys Lys Leu				
	865		870		875
Pro Asn	Tyr Asp Ala Arg Glu Ile Val Asn Asn Val Arg Arg Met Leu				
	885		890		895
Asp Gly	Leu Asp Pro His Pro Met Leu Pro Asn Tyr Lys Asn Phe Lys				
	900		905		910
Gly Thr	Ile Gln Glu Leu Gly Gln Asn Gln Tyr Ala Val Ser Gly Glu				
	915		920		925
Ile Phe	Val Val Asp Arg Asn Thr Val Glu Ile Thr Glu Leu Pro Val				
	930		935		940
Arg Thr	Trp Thr Gln Val Tyr Lys Glu Gln Val Leu Glu Pro Met Leu				
	945		950		955
Asn Gly	Thr Asp Lys Thr Pro Ala Leu Ile Ser Asp Tyr Lys Glu Tyr				
	965		970		975
His Thr	Asp Thr Thr Val Lys Phe Val Val Lys Met Thr Glu Glu Lys				
	980		985		990
Leu Ala	Gln Ala Glu Ala Ala Gly Leu His Lys Val Phe Lys Leu Gln				
	995		1000		1005
Thr Thr	Leu Thr Cys Asn Ser Met Val Leu Phe Asp His Met Gly Cys				

1010 1015 1020  
 Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp  
 1025 1030 1035 1040  
 Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met  
 1045 1050 1055  
 Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu  
 1060 1065 1070  
 Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp  
 1075 1080 1085  
 Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys  
 1090 1095 1100  
 Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln  
 1105 1110 1115 1120  
 Asn Gln His Asp Asp Ser Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro  
 1125 1130 1135  
 Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu  
 1140 1145 1150  
 Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val  
 1155 1160 1165  
 Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu  
 1170 1175 1180  
 Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu  
 1185 1190 1195 1200  
 Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly  
 1205 1210 1215  
 Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro  
 1220 1225 1230  
 Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala  
 1235 1240 1245  
 Ser Lys Lys Leu Leu Lys Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala  
 1250 1255 1260  
 Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly  
 1265 1270 1275 1280  
 Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro  
 1285 1290 1295  
 Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr  
 1300 1305 1310  
 Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn  
 1315 1320 1325  
 Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr  
 1330 1335 1340  
 Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala  
 1345 1350 1355 1360  
 Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp  
 1365 1370 1375  
 Ala Asp Asp Asp Asp Asp Asn Asn Asn Leu Glu Glu Leu Lys Val  
 1380 1385 1390  
 Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser  
 1395 1400 1405  
 Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys  
 1410 1415 1420  
 Ala Thr Pro Glu Lys Ser Leu His Asp Lys Lys Ser Gln Asp Phe Gly  
 1425 1430 1435 1440  
 Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser  
 1445 1450 1455  
 Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro  
 1460 1465 1470  
 Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala  
 1475 1480 1485  
 Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg  
 1490 1495 1500  
 Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp  
 1505 1510 1515 1520  
 Ser Glu Phe Gly Ile Pro Lys Lys Thr Thr Thr Pro Lys Gly Lys Gly

```

                1525                1530                1535
Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp
                1540                1545                1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys
                1555                1560                1565
Lys Thr Ser Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Asp
                1570                1575                1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys
1585                1590                1595                1600
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Glu Asp Asp Val Asp
                1605                1610                1615
Phe Ala Met Phe Asn
                16201621

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<210> 1162
<211> 73
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(73)
<223> X = any amino acid or stop code

```

```

<400> 1162
Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
 1                5                10                15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn
                20                25                30
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr
 35                40                45
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr
 50                55                60
His His Cys Lys Ala His Ser Ser His
 65                70                73

```

```

<210> 1163
<211> 336
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1163
Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly
 1                5                10                15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr
 20                25                30
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr
 35                40                45
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp
 50                55                60
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg
 65                70                75                80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala
                85                90                95

```

Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly  
 100 105 110  
 Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val  
 115 120 125  
 Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr  
 130 135 140  
 Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile  
 145 150 155 160  
 Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu  
 165 170 175  
 Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys  
 180 185 190  
 Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala  
 195 200 205  
 Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly  
 210 215 220  
 Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly  
 225 230 235 240  
 Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr  
 245 250 255  
 Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val  
 260 265 270  
 Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu  
 275 280 285  
 Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys  
 290 295 300  
 Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala  
 305 310 315 320  
 Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser  
 325 330 335 336

&lt;210&gt; 1164

&lt;211&gt; 118

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(118)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1164

His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu  
 1 5 10 15  
 Leu Lys Ser His Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser  
 20 25 30  
 Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys  
 35 40 45  
 Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn  
 50 55 60  
 Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys  
 65 70 75 80  
 Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro  
 85 90 95  
 Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val  
 100 105 110  
 Val His His Gly Ser Gly

115

118

<210> 1165  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> X = any amino acid or stop code

<400> 1165  
 Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp  
 1 5 10 15  
 Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp  
 20 25 30  
 Asp Cys Gly His Ile Arg Phe Phe Ser Phe Ser Leu Ile Glu Gly Tyr  
 35 40 45  
 Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn  
 50 55 60  
 Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile  
 65 70 75 80  
 Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr  
 85 90 95  
 Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His  
 100 105 110  
 Arg Gln Ala Ala Ser Gln Val Thr Thr Thr Lys Gln Gly Gln Trp Leu  
 115 120 125  
 Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu  
 130 135 140  
 Gly \*  
 145

<210> 1166  
 <211> 84  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(84)  
 <223> X = any amino acid or stop code

<400> 1166  
 Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly  
 1 5 10 15  
 Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala  
 20 25 30  
 Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln  
 35 40 45  
 Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe  
 50 55 60  
 Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile



```

      85              90              95
Ser Ala Gly Val Leu Gly Cys Arg Trp Gly Ser Ser Gly Lys Ser His
      100              105              110
Ser Leu Ser Ser Pro Ser Arg Lys Gly Asn Leu His Leu Leu Ser Gln Glu
      115              120              125
Pro Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser
      130              135              140
Thr Glu Ser Cys Asn Thr Thr Thr Glu Asp Glu Asp Leu Lys Val Arg
      145              150              155              160
Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn
      165              170              175
Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr
      180              185              190
Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe
      195              200              205
His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile
      210              215              220
Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Thr Phe
      225              230              235              240
Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu
      245              250              255
Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala
      260              265              270
Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser
      275              280              285
Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu
      290              295              300
Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly
      305              310              315              319

```

```

<210> 1169
<211> 96
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1169
Glu Arg Ala Gly Ala Gly Gly Ala Ala Ala Cys Arg Ala Gly Thr Arg
  1              5              10              15
Ser Gly Ala Thr Ser Arg Thr Pro Trp Pro Leu His Arg Gln Leu Ser
      20              25              30
Met Met Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met
      35              40              45
Gly Thr Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln
      50              55              60
Ser Arg Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln
      65              70              75              80
Gly His Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Gly Gln
      85              90              95              96

```

```

<210> 1170
<211> 145
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature

```



&lt;222&gt; (1)...(145)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1170

```

Asn Gly Thr Leu Phe Ile Met Val Met His Ile Lys Asp Leu Val Ser
 1           5           10           15
Asp Tyr Lys Glu Xaa Trp Leu Xaa Arg Lys Pro Leu Pro Trp Xaa Glu
          20           25           30
Ala Leu Leu Leu Arg Asp Cys Phe Phe Phe Xaa Val Thr Glu Asn Gly
          35           40           45
Ala Asp Pro Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Asn His
          50           55           60
Lys Thr Ser Lys Arg Lys Thr Lys Ile Ser Arg Lys Thr Arg Asn Pro
          65           70           75           80
Thr Phe Asn Glu Met Leu Val Tyr Ser Gly Tyr Ser Lys Glu Thr Leu
          85           90           95
Arg Gln Arg Glu Leu Gln Leu Ser Val Leu Ser Ala Glu Ser Leu Arg
          100          105          110
Glu Asn Phe Phe Leu Gly Gly Val Thr Leu Pro Leu Lys Asp Phe Asn
          115          120          125
Leu Ser Lys Glu Thr Val Lys Trp Tyr Gln Leu Thr Ala Ala Thr Tyr
          130          135          140
Leu
145

```

&lt;210&gt; 1171

&lt;211&gt; 464

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1171

```

Leu His Arg Ile Met Gln Leu Ala Val Val Val Ser Gln Val Leu Glu
 1           5           10           15
Asn Gly Ser Ser Val Leu Val Cys Leu Glu Gly Trp Asp Ile Thr
          20           25           30
Ala Gln Val Thr Ser Leu Val Gln Leu Leu Ser Asp Pro Phe Tyr Arg
          35           40           45
Thr Leu Glu Gly Phe Gln Met Leu Val Glu Lys Glu Trp Leu Ser Phe
          50           55           60
Gly His Lys Phe Ser Gln Arg Ser Ser Leu Thr Leu Asn Cys Gln Gly
          65           70           75           80
Ser Gly Phe Ala Pro Val Phe Leu Gln Phe Leu Asp Cys Val His Gln
          85           90           95
Val His Asn Gln Tyr Pro Thr Glu Phe Glu Phe Asn Leu Tyr Tyr Leu
          100          105          110
Lys Phe Leu Ala Phe His Tyr Val Ser Asn Arg Phe Lys Thr Phe Leu
          115          120          125
Leu Asp Ser Asp Tyr Glu Arg Leu Glu His Gly Thr Leu Phe Asp Asp
          130          135          140
Lys Gly Glu Lys His Ala Lys Lys Gly Val Cys Ile Trp Glu Cys Ile
          145          150          155          160
Asp Arg Met His Lys Arg Ser Pro Ile Phe Phe Asn Tyr Leu Tyr Ser
          165          170          175
Pro Leu Glu Ile Glu Ala Leu Lys Pro Asn Val Asn Val Ser Ser Leu
          180          185          190

```

Lys Lys Trp Asp Tyr Tyr Ile Glu Glu Thr Leu Ser Thr Gly Pro Ser  
 195 200 205  
 Tyr Asp Trp Met Met Leu Thr Pro Lys His Phe Pro Ser Glu Asp Ser  
 210 215 220  
 Asp Leu Ala Gly Glu Ala Gly Pro Arg Ser Gln Arg Arg Thr Val Trp  
 225 230 235 240  
 Pro Cys Tyr Asp Asp Val Ser Cys Thr Gln Pro Asp Ala Leu Thr Ser  
 245 250 255  
 Leu Phe Ser Glu Ile Glu Lys Leu Glu His Lys Leu Asn Gln Ala Pro  
 260 265 270  
 Glu Lys Trp Gln Gln Leu Trp Glu Arg Val Thr Val Asp Leu Lys Glu  
 275 280 285  
 Glu Pro Arg Thr Asp Arg Ser Gln Arg His Leu Ser Arg Ser Pro Gly  
 290 295 300  
 Ile Val Ser Thr Asn Leu Pro Ser Tyr Gln Lys Arg Ser Leu Leu His  
 305 310 315 320  
 Leu Pro Asp Ser Ser Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro  
 325 330 335  
 Ser Asn Gly Val Glu Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr  
 340 345 350  
 Ser Lys Asn Asp Glu Asn Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg  
 355 360 365  
 Gly Ala Leu Leu Lys Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val  
 370 375 380  
 Thr Lys His Gln Leu Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys  
 385 390 395 400  
 Lys Gly His Ile Asp Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly  
 405 410 415  
 Pro Ser Met Gly Ala Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp  
 420 425 430  
 Leu Lys Thr Ser Lys Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln  
 435 440 445  
 Ser Ala Gln Gln Trp Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala  
 450 455 460 464

<210> 1172  
 <211> 256  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1172  
 Glu Val Glu Gly Pro Arg Arg Val Ser Pro Ala Pro Glu Thr Leu Gly  
 1 5 10 15  
 Met Glu Glu Ser Val Val Arg Pro Ser Val Phe Val Val Asp Gly Gln  
 20 25 30  
 Thr Asp Ile Pro Phe Thr Arg Leu Gly Arg Ser His Arg Arg Gln Ser  
 35 40 45  
 Cys Ser Val Ala Arg Val Gly Leu Gly Leu Leu Leu Leu Met Gly  
 50 55 60  
 Ala Gly Leu Ala Val Gln Gly Trp Phe Leu Leu Gln Leu His Trp Arg  
 65 70 75 80  
 Leu Gly Glu Met Val Thr Arg Leu Pro Asp Gly Pro Ala Gly Ser Trp  
 85 90 95  
 Glu Gln Leu Ile Gln Glu Arg Arg Ser His Glu Val Asn Pro Ala Ala  
 100 105 110  
 His Leu Thr Gly Ala Asn Ser Ser Leu Thr Gly Ser Gly Gly Pro Leu  
 115 120 125

```

Leu Trp Glu Thr Gln Leu Gly Leu Ala Phe Leu Arg Gly Leu Ser Tyr
  130          135          140
His Asp Gly Ala Leu Val Val Thr Lys Ala Gly Tyr Tyr Tyr Ile Tyr
 145          150          155          160
Ser Lys Val Gln Leu Gly Gly Val Gly Cys Pro Leu Gly Leu Ala Ser
      165          170          175
Thr Ile Thr His Gly Leu Tyr Lys Arg Thr Pro Arg Tyr Pro Glu Glu
      180          185          190
Leu Glu Leu Leu Val Ser Gln Gln Ser Pro Cys Gly Arg Ala Thr Ser
      195          200          205
Ser Ser Arg Val Trp Trp Asp Ser Ser Phe Leu Gly Gly Val Val His
      210          215          220
Leu Glu Ala Gly Glu Glu Val Val Val Arg Val Leu Asp Glu Arg Leu
 225          230          235          240
Val Arg Leu Arg Asp Gly Thr Arg Ser Tyr Phe Gly Ala Phe Met Val
      245          250          255 256

```

```

<210> 1173
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

<400> 1173
Gln Ser Ala Glu Leu Gly Pro Arg Arg Arg Glu Gly Ser Arg Arg Pro
  1          5          10          15
Ser Cys Thr Lys Ala Ser Lys Pro Trp Arg Arg Arg Pro Gly Gly Pro
      20          25          30
Thr Ser Gly Leu Gly Xaa Gly Pro Leu Ser Pro Gly Pro Tyr Gln Cys
      35          40          45
Arg Pro Ser Leu Pro Ala Gln Leu Tyr Pro Gln Ser Leu Met Ala Ala
      50          55          60
Ala Thr Leu Arg Thr Pro Thr Gln Val Ser Ala Ala Ser Ser Arg Pro
 65          70          75          80
His Thr Pro Ser Pro Thr His Val Leu Lys Pro Ser Val Arg Gly Ala
      85          90          95
Cys Ser Ser Pro Arg Cys Pro Gly Ser Gly Thr Leu Arg Arg Ser Trp
      100          105          110
Val Gly Pro Phe Phe
      115          117

```

```

<210> 1174
<211> 370
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1174
Leu Trp Trp Pro Pro Leu Ser Arg His Ala Ala His Arg Gln Trp Pro

```

1 5 10 15  
 Gly Pro Thr Ala Pro Arg Gly Leu Gly His Lys Val Lys Gly Arg Gly  
 20 25 30  
 Ala Ser Pro Ala Ala Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly  
 35 40 45  
 Leu Val Glu Glu Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser  
 50 55 60  
 Leu Leu Ser Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys  
 65 70 75 80  
 Tyr Asn Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met  
 85 90 95  
 Thr Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val  
 100 105 110  
 Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg  
 115 120 125  
 Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu Gln Ile  
 130 135 140  
 Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu  
 145 150 155 160  
 Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala  
 165 170 175  
 Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe Val Trp Gly Gly Ala  
 180 185 190  
 Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val  
 195 200 205  
 Ser Thr Arg Ala Leu Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala  
 210 215 220  
 Asp Ala Thr Leu Val Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr  
 225 230 235 240  
 Leu Tyr Ala Leu Val Leu Leu Ser Arg Val Arg Arg Glu Asp Thr Pro  
 245 250 255  
 Leu Asp Arg Asp Thr Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu  
 260 265 270  
 Val Ala Thr Val Cys Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu  
 275 280 285  
 Ile Leu Leu Gly His Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp  
 290 295 300  
 Ala His Tyr Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu  
 305 310 315 320  
 Leu Ala Phe Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met  
 325 330 335  
 Asn Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro  
 340 345 350  
 Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln Val  
 355 360 365  
 Leu Ala  
 370

&lt;210&gt; 1175

&lt;211&gt; 145

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1175

Ser Glu Ser Glu Leu Phe Thr Leu Met Pro Ser Leu Pro Thr Thr Asn  
 1 5 10 15  
 Cys Val His Ser Leu Gln Met Ile Pro Pro Leu Ser Pro Ala Pro Asn  
 20 25 30  
 Gln Glu Leu Val Leu Gly Leu Cys Tyr Met Ser Tyr Leu Ala Phe Leu

```

      35              40              45
Tyr Met Thr Phe Asp Phe Cys Cys Leu Tyr Phe Ser Thr Val Tyr Ala
   50              55              60
Pro Ser Phe Lys Tyr Ile Cys Val His Thr Asp Thr His Ile Cys Val
   65              70              75              80
Cys Val Cys Ile Tyr Leu Ser Ser Val Val Ser Lys Ser Ser Ala Glu
      85              90              95
Ala Asp Gly Val Leu Gln Pro Arg Arg His Pro Ala Ser Leu Leu Ile
   100              105              110
Val Phe Ala Thr Ser Ile Ser Glu Ser Ser Leu Leu Ile Phe Ser Phe
   115              120              125
Gln Lys Thr Glu Ala Lys Leu Ile Val Phe Ala Val Ser Leu Ala Ala
   130              135              140
Lys
145

```

<210> 1176  
 <211> 50  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1176
Phe Phe Phe Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys
   1              5              10              15
Ser Gly Ala Thr Ser Ala Ser Pro Ser Ala Gly Ile Thr Gly Met Ser
      20              25              30
His His Ser Gln Pro Ile Val Asn Phe Leu Arg Ala Cys Ile Pro Ile
      35              40              45
Ser Lys
   50

```

<210> 1177  
 <211> 231  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1177
Arg Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu
   1              5              10              15
Thr Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Leu Arg Arg
      20              25              30
His Gln Arg Gln Gly Gln Glu Gly Glu His Tyr His Ser Cys Val Gln
      35              40              45
Leu Ala Pro Thr Arg Gly Leu Glu Glu Ser Gly His Gly Pro Leu Ser
      50              55              60
Leu Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Thr Glu
      65              70              75              80
Ala Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg
      85              90              95
Tyr Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala
      100              105              110
Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Ala
      115              120              125
Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys

```

```

      130              135              140
Gln His Leu Ile Arg Ala Arg Glu Gln Arg Lys Arg Arg Glu Phe Met
145              150              155              160
Met Gln Ser Arg Leu Glu Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser
      165              170              175
Lys Pro Glu Leu Asn Ile Ile Ala Leu Ser His Arg Lys Thr Met Lys
      180              185              190
Lys Arg Asn Lys Lys Ile Leu Asp Asn Trp Ile Thr Ile Gln Glu Met
      195              200              205
Leu Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro
      210              215              220
Leu Leu Ser Val Thr Thr Val
225              230 231

```

```

<210> 1178
<211> 204
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1178
Ser Asp Arg Gly Cys Ser Ala Ala Ala Gly Arg Asn Met Thr Ala Val
1      5      10      15
Gly Val Gln Ala Gln Arg Pro Leu Gly Gln Arg Gln Pro Arg Arg Ser
      20      25      30
Phe Phe Glu Ser Phe Ile Arg Thr Leu Ile Ile Thr Cys Val Ala Leu
      35      40      45
Ala Val Val Leu Ser Ser Val Ser Ile Cys Asp Gly His Trp Leu Leu
      50      55      60
Ala Glu Asp Arg Leu Phe Gly Leu Trp His Phe Cys Thr Thr Thr Asn
      65      70      75      80
Gln Ser Val Pro Ile Cys Phe Arg Asp Leu Gly Gln Ala His Val Pro
      85      90      95
Gly Leu Ala Val Gly Met Gly Leu Val Arg Ser Val Gly Ala Leu Ala
      100      105      110
Val Val Ala Ala Ile Phe Gly Leu Glu Phe Leu Met Val Ser Gln Leu
      115      120      125
Cys Glu Asp Lys His Ser Gln Cys Lys Trp Val Met Gly Ser Ile Leu
      130      135      140
Leu Leu Val Ser Phe Val Leu Ser Ser Gly Gly Leu Leu Gly Phe Val
      145      150      155      160
Ile Leu Leu Arg Asn Gln Val Thr Leu Ile Gly Phe Thr Leu Met Phe
      165      170      175
Trp Cys Glu Phe Thr Ala Ser Phe Leu Leu Phe Leu Asn Ala Ile Ser
      180      185      190
Gly Leu His Ile Asn Ser Ile Thr His Pro Trp Glu
      195      200      204

```

```

<210> 1179
<211> 179
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1179
Gln Ile Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn

```

```

1           5           10           15
Leu Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr
                20                25                30
Pro Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys
                35                40                45
Gln Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe
                50                55                60
Pro Glu Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly
        65                70                75                80
Val Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr
                85                90                95
Val Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr
                100                105                110
Asp Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe
                115                120                125
Met Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu Glu Arg
                130                135                140
His Ser Gln Glu Gln Gly Ser Gly Gly Gln Ala Ser Ala Ala Ser Asn
        145                150                155                160
Pro Pro Ser Phe Phe Thr Thr Pro Thr Ser Asp Gly Ala Phe Glu Leu
                165                170                175
Ala Pro Thr
        179

```

<210> 1180  
 <211> 159  
 <212>Amino acid  
 <213> Homo sapiens

```

                <400> 1180
Arg Lys Ser Leu His Glu Asn Lys Leu Lys Arg Leu Gln Glu Lys Val
1           5           10           15
Glu Val Leu Glu Ala Lys Lys Glu Glu Leu Glu Thr Glu Asn Gln Val
                20                25                30
Leu Asn Arg Gln Asn Val Pro Phe Glu Asp Tyr Thr Arg Leu Gln Lys
                35                40                45
Arg Leu Lys Asp Ile Gln Arg Arg His Asn Glu Phe Arg Ser Leu Ile
                50                55                60
Leu Val Pro Asn Met Pro Pro Thr Ala Ser Ile Asn Pro Val Ser Phe
        65                70                75                80
Gln Ser Ser Ala Met Gly Ser Lys His Gly Thr Thr Ile Ser Ser Ser
                85                90                95
Tyr Ala Gly Gly Thr Thr Ser Lys Gly Thr Leu Ser Thr Ser Gln Lys
                100                105                110
Thr Arg Arg Thr Gly Asn Asn Thr Lys Lys Thr Thr Arg Gly Thr Trp
                115                120                125
Ile Phe Arg Arg Met Met Phe Leu Glu Asn Arg Gln Ile Lys Arg Gly
        130                135                140
Glu Val Gly Asp Ser Val Lys Leu Asp Ile Leu Thr Cys Gly Ile
        145                150                155                159

```

<210> 1181  
 <211> 328  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(328)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1181

```

Gly Arg Pro Gly Ala Gly Ala Ser Glu Leu Phe Pro Ser Val Thr Thr
 1           5           10           15
Asp Leu Ser Val Ser Lys Gln Asn Ala Cys Leu Thr Cys Val Asp Phe
      20           25           30
Val Thr Val His Val Cys Met Gly Phe Trp Gly Ile Gly Pro Gly Ala
      35           40           45
Leu Ser Thr Ser Cys Ile Pro Tyr Pro Leu Ser His Gly Pro Gly Ser
      50           55           60
Val Lys Ala Glu Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile
      65           70           75           80
Leu Cys Val Arg Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro
      85           90           95
Val Val Leu Phe Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro
      100          105          110
Gly Lys Ala Phe Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu
      115          120          125
Leu Val Leu Val Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp
      130          135          140
Ile Phe Gly Val Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile
      145          150          155          160
Leu Pro Ser Ile Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Gly Pro
      165          170          175
Phe Leu Ser Trp Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly
      180          185          190
Val Leu Phe Met Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala
      195          200          205
Thr Gly Gln Ser Arg Met Ser Gly His Xaa Ser Gly Pro Ala Gly Pro
      210          215          220
Gly Pro Cys Ala His Ala His Gly Gly Val Arg Ala Ala Pro Xaa Gly
      225          230          235          240
Pro Ser Cys Pro Thr Cys Gly Gly Gly Trp Phe Pro Xaa Thr Trp Leu
      245          250          255
Ser Glu Ala Gly Asp Ser Arg Gly Cys Arg Leu Ala His Phe Pro Pro
      260          265          270
Pro Gln Gly Cys Gln Ala Trp Ile Met Ala Leu Ile Pro Thr Pro Thr
      275          280          285
Pro Trp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
      290          295          300
Glu Glu Glu Glu Glu Ala Arg Ser Trp Trp Ser Leu Cys Pro Ala
      305          310          315          320
Gln Ser Ser Leu Pro Pro Gly
      325          328

```

&lt;210&gt; 1182

&lt;211&gt; 144

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1182

```

Ile Asn Glu Leu Arg Tyr His Leu Glu Glu Ser Arg Asp Lys Asn Val
 1           5           10           15

```



```

Leu Leu Cys Leu Glu Glu Arg Asp Trp Asp Pro Gly Leu Ala Ile Ile
      20      25
Asp Asn Leu Met Gln Ser Ile Asn Gln Ser Lys Lys Thr Val Phe Val
      35      40      45
Leu Thr Lys Lys Tyr Ala Lys Ser Trp Asn Phe Lys Thr Ala Phe Tyr
      50      55      60
Leu Ala Leu Gln Arg Leu Met Asp Glu Asn Met Asp Val Ile Ile Phe
      65      70      75      80
Ile Leu Leu Glu Pro Val Leu Gln His Ser Gln Tyr Leu Arg Leu Arg
      85      90      95
Gln Arg Ile Cys Lys Ser Ser Ile Leu Gln Trp Pro Asp Asn Pro Lys
      100      105      110
Ala Glu Gly Leu Phe Trp Gln Thr Leu Arg Asn Val Val Leu Thr Glu
      115      120      125
Asn Asp Ser Arg Tyr Asn Asn Met Tyr Val Asp Ser Ile Lys Gln Tyr
      130      135      140      144

```

&lt;210&gt; 1183

&lt;211&gt; 484

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1183

```

Asp Asp Pro Ile Lys Thr Ser Trp Thr Pro Arg Tyr Val Leu Ser
 1      5      10      15
Met Ser Glu Glu Arg His Glu Arg Val Arg Lys Lys Tyr His Ile Leu
      20      25      30
Val Glu Gly Asp Gly Ile Pro Pro Pro Ile Lys Ser Phe Lys Glu Met
      35      40      45
Lys Phe Pro Ala Ala Ile Leu Arg Gly Leu Lys Lys Lys Gly Ile His
      50      55      60
His Pro Thr Pro Ile Gln Ile Gln Gly Ile Pro Thr Ile Leu Ser Gly
      65      70      75      80
Arg Asp Met Ile Gly Ile Ala Phe Thr Gly Ser Gly Lys Thr Leu Val
      85      90      95
Phe Thr Leu Pro Val Ile Met Phe Cys Leu Glu Gln Glu Lys Arg Leu
      100      105      110
Pro Phe Ser Lys Arg Glu Gly Pro Tyr Gly Leu Ile Ile Cys Pro Ser
      115      120      125
Arg Glu Leu Ala Arg Gln Thr His Gly Ile Leu Glu Tyr Tyr Cys Arg
      130      135      140
Leu Leu Gln Glu Asp Ser Ser Pro Leu Leu Arg Cys Ala Leu Cys Ile
      145      150      155      160
Gly Gly Met Ser Val Lys Glu Gln Met Glu Thr Ile Arg His Gly Val
      165      170      175
His Met Met Val Ala Thr Pro Gly Arg Leu Met Asp Leu Leu Gln Lys
      180      185      190
Lys Met Val Ser Leu Asp Ile Cys Arg Tyr Leu Ala Leu Asp Glu Ala
      195      200      205
Asp Arg Met Ile Asp Met Gly Phe Glu Gly Asp Ile Arg Thr Ile Phe
      210      215      220
Ser Tyr Phe Lys Gly Gln Arg Gln Thr Leu Leu Phe Ser Ala Thr Met
      225      230      235      240
Pro Lys Lys Ile Gln Asn Phe Ala Lys Ser Ala Leu Val Lys Pro Val
      245      250      255
Thr Ile Asn Val Gly Arg Ala Gly Ala Ala Ser Leu Asp Val Ile Gln
      260      265      270

```

Glu Val Glu Tyr Val Lys Glu Glu Ala Lys Met Val Tyr Leu Leu Glu  
 275 280 285  
 Cys Leu Gln Lys Thr Pro Pro Pro Val Leu Ile Phe Ala Glu Lys Lys  
 290 295 300  
 Ala Asp Val Asp Ala Ile His Glu Tyr Leu Leu Lys Gly Val Glu  
 305 310 315 320  
 Ala Val Ala Ile His Gly Gly Lys Asp Gln Glu Arg Thr Lys Ala  
 325 330 335  
 Ile Glu Ala Phe Arg Glu Gly Lys Lys Asp Val Leu Val Ala Thr Asp  
 340 345 350  
 Val Ala Ser Lys Gly Leu Asp Phe Pro Ala Ile Gln His Val Ile Asn  
 355 360 365  
 Tyr Asp Met Pro Glu Glu Ile Glu Asn Tyr Val His Arg Ile Gly Arg  
 370 375 380  
 Thr Gly Arg Ser Gly Asn Thr Gly Ile Ala Thr Thr Phe Ile Asn Lys  
 385 390 395 400  
 Ala Cys Asp Glu Ser Val Leu Met Asp Leu Lys Ala Leu Leu Leu Glu  
 405 410 415  
 Ala Lys Gln Lys Val Pro Pro Val Leu Gln Val Leu His Cys Gly Asp  
 420 425 430  
 Glu Ser Met Leu Asp Ile Gly Gly Glu Arg Gly Cys Ala Phe Cys Gly  
 435 440 445  
 Gly Leu Gly His Arg Ile Thr Asp Cys Pro Lys Leu Glu Ala Met Gln  
 450 455 460  
 Thr Lys Gln Val Ser Asn Ile Gly Arg Lys Asp Tyr Leu Ala His Ser  
 465 470 475 480  
 Ser Met Asp Phe  
 484

&lt;210&gt; 1184

&lt;211&gt; 125

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1184

Ile Glu Thr Thr Thr Gln Pro Ser Glu Asp Thr Asn Ala Asn Ser Gln Asp  
 1 5 10 15  
 Asn Ser Met Gln Pro Glu Thr Ser Ser Gln Gln Leu Leu Ser Pro  
 20 25 30  
 Thr Leu Ser Asp Arg Gly Gly Ser Arg Gln Asp Ala Ala Asp Ala Gly  
 35 40 45  
 Lys Pro Gln Arg Lys Phe Gly Gln Trp Arg Leu Pro Ser Ala Pro Lys  
 50 55 60  
 Pro Ile Ser His Ser Val Ser Ser Val Asn Leu Arg Phe Gly Gly Arg  
 65 70 75 80  
 Thr Thr Met Lys Ser Val Val Cys Lys Met Asn Pro Met Thr Asp Ala  
 85 90 95  
 Ala Ser Cys Gly Ser Glu Val Lys Lys Trp Trp Thr Arg Gln Leu Thr  
 100 105 110  
 Val Glu Ser Asp Glu Ser Gly Asp Asp Leu Leu Asp Ile  
 115 120 125

&lt;210&gt; 1185

&lt;211&gt; 73

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1185  
 Asn Asp Arg Phe Ser Ala Cys Tyr Phe Thr Leu Lys Leu Lys Glu Ala  
 1 5 10 15  
 Ala Val Arg Gln Arg Glu Ala Leu Lys Lys Leu Thr Lys Asn Ile Ala  
 20 25 30  
 Thr Asp Ser Tyr Ile Ser Val Asn Leu Arg Asp Val Tyr Ala Arg Ser  
 35 40 45  
 Ile Met Glu Met Leu Arg Leu Lys Gly Arg Glu Arg Ala Ser Thr Arg  
 50 55 60  
 Ser Ser Gly Gly Asp Phe Trp Phe  
 65 70 73

<210> 1186  
 <211> 343  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1186  
 Phe Thr Val Phe Ile Leu Gly Ile Thr Ile Arg Pro Leu Val Glu Phe  
 1 5 10 15  
 Leu Asp Val Lys Arg Ser Asn Lys Lys Gln Gln Ala Val Ser Glu Glu  
 20 25 30  
 Ile Tyr Cys Arg Leu Phe Asp His Val Lys Thr Gly Ile Glu Asp Val  
 35 40 45  
 Cys Gly His Trp Gly His Asn Phe Trp Arg Asp Lys Phe Lys Lys Phe  
 50 55 60  
 Asp Asp Lys Tyr Leu Arg Lys Leu Leu Ile Arg Glu Asn Gln Pro Lys  
 65 70 75 80  
 Ser Ser Ile Val Ser Leu Tyr Lys Lys Leu Glu Ile Lys His Ala Ile  
 85 90 95  
 Glu Met Ala Glu Thr Gly Met Ile Ser Thr Val Pro Thr Phe Ala Ser  
 100 105 110  
 Leu Asn Asp Cys Arg Glu Glu Lys Ile Arg Lys Val Thr Ser Ser Glu  
 115 120 125  
 Thr Asp Glu Ile Arg Glu Leu Leu Ser Arg Asn Leu Tyr Gln Ile Arg  
 130 135 140  
 Gln Arg Thr Leu Ser Tyr Asn Arg His Ser Leu Thr Ala Asp Thr Ser  
 145 150 155 160  
 Glu Arg Gln Ala Lys Glu Ile Leu Ile Arg Arg His Ser Leu Arg  
 165 170 175  
 Glu Ser Ile Arg Lys Asp Ser Ser Leu Asn Arg Glu His Arg Ala Ser  
 180 185 190  
 Thr Ser Thr Ser Arg Tyr Leu Ser Leu Pro Lys Asn Thr Lys Leu Pro  
 195 200 205  
 Glu Lys Leu Gln Lys Arg Arg Thr Ile Ser Ile Ala Asp Gly Asn Ser  
 210 215 220  
 Ser Asp Ser Asp Ala Asp Ala Gly Thr Thr Val Leu Asn Leu Gln Pro  
 225 230 235 240  
 Arg Ala Arg Arg Phe Leu Pro Glu Gln Phe Ser Lys Lys Ser Pro Gln  
 245 250 255  
 Ser Tyr Lys Met Glu Trp Lys Asn Glu Val Asp Val Asp Ser Gly Arg  
 260 265 270  
 Asp Met Pro Ser Thr Pro Pro Thr Pro His Ser Arg Glu Lys Gly Thr  
 275 280 285  
 Gln Thr Ser Gly Leu Leu Gln Gln Pro Leu Leu Ser Lys Asp Gln Ser  
 290 295 300

Gly Ser Glu Arg Glu Asp Ser Leu Thr Glu Gly Ile Pro Pro Lys Pro  
 305 310 315 320  
 Pro Pro Arg Leu Val Trp Arg Ala Ser Glu Pro Gly Ser Arg Lys Ala  
 325 330 335  
 Arg Phe Gly Ser Glu Lys Pro  
 340 343

<210> 1187  
 <211> 146  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1187  
 His Glu Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys Gln Met Glu  
 1 5 10 15  
 Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile Leu Ser Leu  
 20 25 30  
 Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala Thr Thr Thr  
 35 40 45  
 Leu Phe Leu Pro Ile Phe Ala Ser Met Ser Arg Ser Ile Gly Leu Asn  
 50 55 60  
 Pro Leu Tyr Ile Met Leu Pro Cys Thr Leu Ser Ala Ser Phe Ala Phe  
 65 70 75 80  
 Met Leu Pro Val Ala Thr Pro Pro Asn Ala Ile Val Phe Thr Tyr Gly  
 85 90 95  
 His Leu Lys Val Ala Asp Met Val Lys Thr Gly Val Ile Met Asn Ile  
 100 105 110  
 Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn Thr Trp Gly Arg Ala  
 115 120 125  
 Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala Asn Val Thr His Ile  
 130 135 140  
 Glu Thr  
 145 146

<210> 1188  
 <211> 40  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1188  
 His Glu Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala Pro Thr Glu  
 1 5 10 15  
 Glu Gly Lys Lys Glu Leu Leu Ala Leu Ser Asn Ala Asn Pro Ser Leu  
 20 25 30  
 Leu Glu Arg His Cys Ala Tyr Leu  
 35 40

<210> 1189  
 <211> 62  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1189  
 Gly Asn Ile Ile Tyr Met Tyr Met Gln Pro Gly Ala Arg Ser Ser Gln  
 1 5 10 15  
 Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Asn Ile Val Thr Pro Leu  
 20 25 30  
 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Arg Glu Val Lys Gly Ala  
 35 40 45  
 Leu Gly Arg Leu Leu Leu Gly Lys Arg Glu Leu Gly Lys Glu  
 50 55 60 62

<210> 1190  
 <211> 623  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1190  
 Pro Leu Glu Gln Arg Ser Asn Cys Arg Val Asp Pro Arg Val Arg Thr  
 1 5 10 15  
 His Thr Met Ala Ser Asp Thr Ser Ser Leu Val Gln Ser His Thr Tyr  
 20 25 30  
 Lys Lys Arg Glu Pro Ala Asp Val Pro Tyr Gln Thr Gly Gln Leu His  
 35 40 45  
 Pro Ala Ile Arg Val Ala Asp Leu Leu Gln His Ile Thr Gln Met Lys  
 50 55 60  
 Cys Ala Glu Gly Tyr Gly Phe Lys Glu Glu Tyr Glu Ser Phe Phe Glu  
 65 70 75 80  
 Gly Gln Ser Ala Pro Trp Asp Ser Ala Lys Lys Asp Glu Asn Arg Met  
 85 90 95  
 Lys Asn Arg Tyr Gly Asn Ile Ile Ala Tyr Asp His Ser Arg Val Arg  
 100 105 110  
 Leu Gln Thr Ile Glu Gly Asp Thr Asn Ser Asp Tyr Ile Asn Gly Asn  
 115 120 125  
 Tyr Ile Asp Gly Tyr His Arg Pro Asn His Tyr Ile Ala Thr Gln Gly  
 130 135 140  
 Pro Met Gln Glu Thr Ile Tyr Asp Phe Trp Arg Met Val Trp His Glu  
 145 150 155 160  
 Asn Thr Ala Ser Ile Ile Met Val Thr Asn Leu Val Glu Val Gly Arg  
 165 170 175  
 Val Lys Cys Cys Lys Tyr Trp Pro Asp Asp Thr Glu Ile Tyr Lys Asp  
 180 185 190  
 Ile Lys Val Thr Leu Ile Glu Thr Glu Leu Leu Ala Glu Tyr Val Ile  
 195 200 205  
 Arg Thr Phe Ala Val Glu Lys Arg Gly Val His Glu Ile Arg Glu Ile  
 210 215 220  
 Arg Gln Phe His Phe Thr Gly Trp Pro Asp His Gly Val Pro Tyr His  
 225 230 235 240  
 Ala Thr Gly Leu Leu Gly Phe Val Arg Gln Val Lys Ser Lys Ser Pro  
 245 250 255  
 Pro Ser Ala Gly Pro Leu Val Val His Cys Ser Ala Gly Ala Gly Arg  
 260 265 270  
 Thr Gly Cys Phe Ile Val Ile Asp Ile Met Leu Asp Met Ala Glu Arg  
 275 280 285  
 Glu Gly Val Val Asp Ile Tyr Asn Cys Val Arg Glu Leu Arg Ser Arg  
 290 295 300  
 Arg Val Asn Met Val Gln Thr Glu Glu Gln Tyr Val Phe Ile His Asp  
 305 310 315 320

```
<210> 1191
<211> 86
<212> Amino acid
<213> Homo sapiens
```

710

<210> 1192  
 <211> 109  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1192  
 Thr Leu Ser Glu Ser Gly Ala Leu Phe Ser Leu Gly Pro Pro Pro Leu  
 1 5 10 15  
 Ser Leu Lys Ser Ser Ser Ala Pro Arg Pro Tyr Ser Thr Leu Arg Asp  
 20 25 30  
 Cys Leu Glu His Phe Ala Glu Leu Phe Asp Leu Gly Phe Pro Asn Pro  
 35 40 45  
 Leu Ala Glu Arg Ile Ile Phe Glu Thr His Gln Ile His Phe Ala Asn  
 50 55 60  
 Cys Ser Leu Gly Gln Pro Thr Phe Ser Asp Pro Pro Glu Asp Val Leu  
 65 70 75 80  
 Leu Ala Met Ile Ile Ala Pro Ile Cys Leu Ile Pro Phe Leu Ile Thr  
 85 90 95  
 Leu Val Val Trp Arg Ser Lys Asp Ser Glu Ala Gln Ala  
 100 105 109

<210> 1193  
 <211> 257  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1193  
 Cys Glu Glu Arg Glu Gln Glu Lys Asp Asp Val Asp Val Ala Leu Leu  
 1 5 10 15  
 Pro Thr Ile Val Glu Lys Val Ile Leu Pro Lys Leu Thr Val Ile Ala  
 20 25 30  
 Glu Asn Met Trp Asp Pro Phe Ser Thr Thr Gln Thr Ser Arg Met Val  
 35 40 45  
 Gly Ile Thr Leu Lys Leu Ile Asn Gly Tyr Pro Ser Val Val Asn Ala  
 50 55 60  
 Glu Asn Lys Asn Thr Gln Val Tyr Leu Lys Ala Leu Leu Arg Met  
 65 70 75 80  
 Arg Arg Thr Leu Asp Asp Val Phe Met Pro Leu Tyr Pro Lys Asn  
 85 90 95  
 Val Leu Glu Asn Lys Asn Ser Gly Pro Tyr Leu Phe Phe Gln Arg Gln  
 100 105 110  
 Phe Trp Ser Ser Val Lys Leu Leu Gly Asn Phe Leu Gln Trp Tyr Gly  
 115 120 125  
 Ile Phe Ser Asn Lys Thr Leu Gln Glu Leu Ser Ile Asp Gly Leu Leu  
 130 135 140  
 Asn Arg Tyr Ile Leu Met Ala Phe Gln Asn Ser Glu Tyr Gly Asp Asp  
 145 150 155 160  
 Ser Ile Lys Lys Ala Gln Asn Val Ile Asn Cys Phe Pro Lys Gln Trp  
 165 170 175  
 Phe Met Asn Leu Lys Gly Glu Arg Thr Ile Ser Gln Leu Glu Asn Phe  
 180 185 190  
 Cys Arg Tyr Leu Val His Leu Ala Asp Thr Ile Tyr Arg Asn Ser Ile  
 195 200 205  
 Gly Cys Ser Asp Val Glu Lys Arg Asn Ala Arg Glu Asn Ile Lys Gln  
 210 215 220

Ile Val Lys Leu Leu Ala Ser Val Arg Ala Leu Asp His Ala Met Ser  
 225 230 235 240  
 Val Ala Ser Asp His Asn Val Lys Glu Phe Lys Ser Leu Ile Glu Gly  
 245 250 255  
 Lys  
 257

<210> 1194  
 <211> 416  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1194  
 Thr Pro Phe Cys Phe Leu Cys Ser Leu Val Phe Arg Ser Arg Val Trp  
 1 5 10 15  
 Ala Glu Pro Cys Leu Ile Asp Ala Ala Lys Glu Glu Tyr Asn Gly Val  
 20 25 30  
 Ile Glu Glu Phe Leu Ala Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val  
 35 40 45  
 Trp Gly Arg Tyr Asp Leu Leu Phe Met Pro Pro Ser Phe Pro Phe Gly  
 50 55 60  
 Gly Met Glu Asn Pro Cys Leu Thr Phe Val Thr Pro Cys Leu Leu Ala  
 65 70 75 80  
 Gly Asp Arg Ser Leu Ala Asp Val Ile Ile His Glu Ile Ser His Ser  
 85 90 95  
 Trp Phe Gly Asn Leu Val Thr Asn Ala Asn Trp Gly Glu Phe Thr Leu  
 100 105 110  
 Asn Glu Gly Phe Thr Met Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu  
 115 120 125  
 Phe Gly Ala Ala Tyr Thr Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu  
 130 135 140  
 Leu Arg Gln His Met Asp Ile Thr Gly Glu Glu Asn Pro Leu Asn Lys  
 145 150 155 160  
 Leu Arg Val Lys Ile Glu Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn  
 165 170 175  
 Glu Thr Pro Tyr Glu Lys Gly Phe Cys Phe Val Ser Tyr Leu Ala His  
 180 185 190  
 Leu Val Gly Asp Gln Asp Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val  
 195 200 205  
 His Glu Phe Lys Phe Arg Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe  
 210 215 220  
 Tyr Leu Glu Tyr Phe Pro Glu Leu Lys Lys Lys Arg Val Asp Ile Ile  
 225 230 235 240  
 Pro Gly Phe Glu Phe Asp Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro  
 245 250 255  
 Tyr Leu Pro Asp Leu Ser Pro Gly Asp Ser Leu Met Lys Pro Ala Glu  
 260 265 270  
 Glu Leu Ala Gln Leu Trp Ala Ala Glu Glu Leu Asp Met Lys Ala Ile  
 275 280 285  
 Glu Ala Val Ala Ile Ser Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe  
 290 295 300  
 Leu Asp Lys Ile Leu Gln Lys Ser Pro Leu Pro Pro Gly Asn Val Lys  
 305 310 315 320  
 Lys Leu Gly Asp Thr Tyr Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu  
 325 330 335  
 Leu Arg Leu Arg Trp Gly Gln Ile Val Leu Lys Asn Asp His Gln Glu  
 340 345 350  
 Asp Phe Trp Lys Val Lys Glu Phe Leu His Asn Gln Gly Lys Gln Lys  
 355 360 365



Tyr	Thr	Leu	Pro	Leu	Tyr	His	Ala	Met	Met	Gly	Gly	Ser	Glu	Val	Ala	
	370					375					380					
Gln	Thr	Leu	Ala	Lys	Glu	Thr	Phe	Ala	Ser	Thr	Ala	Ser	Gln	Leu	His	
	385				390					395					400	
Ser	Asn	Val	Val	Asn	Tyr	Val	Gln	Gln	Ile	Val	Ala	Pro	Lys	Gly	Ser	
			405						410					415	416	

<210> 1195  
 <211> 295  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1195																
Cys	Ala	Ser	Gly	Ser	Ser	Gly	Trp	Arg	Pro	Val	Leu	Trp	Ala	Gly	Ala	
1				5					10					15		
Phe	Thr	Met	Ala	Ser	Ala	Glu	Leu	Asp	Tyr	Thr	Ile	Glu	Ile	Pro	Asp	
		20						25					30			
Gln	Pro	Cys	Trp	Ser	Gln	Lys	Asn	Ser	Pro	Ser	Pro	Gly	Gly	Lys	Glu	
	35						40					45				
Ala	Glu	Thr	Arg	Gln	Pro	Val	Val	Ile	Leu	Leu	Gly	Trp	Gly	Gly	Cys	
	50					55					60					
Lys	Asp	Lys	Asn	Leu	Ala	Lys	Tyr	Ser	Ala	Ile	Tyr	His	Lys	Arg	Gly	
	65			70						75					80	
Cys	Ile	Val	Ile	Arg	Tyr	Thr	Ala	Pro	Trp	His	Met	Val	Phe	Phe	Ser	
				85					90					95		
Glu	Ser	Leu	Gly	Ile	Pro	Ser	Leu	Arg	Val	Leu	Ala	Gln	Lys	Leu	Leu	
		100					105						110			
Glu	Leu	Leu	Phe	Asp	Tyr	Glu	Ile	Glu	Lys	Glu	Pro	Leu	Leu	Phe	His	
		115					120					125				
Val	Phe	Ser	Asn	Gly	Gly	Val	Met	Leu	Tyr	Arg	Tyr	Val	Leu	Glu	Leu	
		130				135						140				
Leu	Gln	Thr	Arg	Arg	Phe	Cys	Arg	Leu	Arg	Val	Val	Gly	Thr	Ile	Phe	
					150					155					160	
Asp	Ser	Ala	Pro	Gly	Asp	Ser	Asn	Leu	Val	Gly	Ala	Leu	Arg	Ala	Leu	
				165				170					175			
Ala	Ala	Ile	Leu	Glu	Arg	Arg	Ala	Ala	Met	Leu	Arg	Leu	Leu	Leu	Leu	
		180					185						190			
Val	Ala	Phe	Ala	Leu	Val	Val	Val	Leu	Phe	His	Val	Leu	Leu	Ala	Pro	
		195				200					205					
Ile	Thr	Ala	Leu	Phe	His	Thr	His	Phe	Tyr	Asp	Arg	Leu	Gln	Asp	Ala	
	210					215				220						
Gly	Ser	Arg	Trp	Pro	Glu	Leu	Tyr	Leu	Tyr	Ser	Arg	Ala	Asp	Glu	Val	
	225				230					235				240		
Val	Leu	Ala	Arg	Asp	Ile	Glu	Arg	Met	Val	Glu	Ala	Arg	Leu	Ala	Arg	
			245					250					255			
Arg	Val	Leu	Ala	Arg	Ser	Val	Asp	Phe	Val	Ser	Ser	Ala	His	Val	Ser	
		260					265						270			
His	Leu	Arg	Asp	Tyr	Pro	Thr	Tyr	Tyr	Thr	Ser	Leu	Cys	Val	Asp	Phe	
		275					280					285				
Met	Arg	Asn	Trp	Val	Arg	Cys										
	290					295										

<210> 1196  
 <211> 97  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1196

```

Pro Arg Val Arg Asp Arg Leu Pro Ser Thr Gly Val Arg Asp Arg Lys
 1           5           10           15
Gly Asp Lys Pro Trp Lys Glu Ser Gly Gly Ser Val Glu Ala Pro Arg
           20           25           30
Met Gly Phe Thr His Pro Pro Gly His Leu Ser Gly Cys Gln Ser Ser
           35           40           45
Leu Ala Ser Gly Glu Thr Gly Thr Gly Ser Ala Asp Pro Pro Gly Gly
           50           55           60
Pro Arg Pro Gly Leu Thr Arg Arg Ala Pro Val Lys Asp Thr Pro Gly
65           70           75           80
Arg Ala Pro Ala Ala Asp Ala Ala Pro Ala Gly Pro Ser Ser Cys Leu
           85           90           95
Gly
97

```

&lt;210&gt; 1197

&lt;211&gt; 204

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1197

```

Gln Gly Arg Thr Ser Cys Ile Gly Leu Tyr Thr Tyr Gln Arg Arg Ile
 1           5           10           15
Cys Lys Tyr Arg Asp Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr
           20           25           30
Thr Phe Ala Ile Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp
           35           40           45
Pro Ser Gln Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu
           50           55           60
Glu Tyr Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met
65           70           75           80
Lys Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln
           85           90           95
Gly Gly Met Ile Trp Lys Ile Ser Glu Asp Lys Gln Leu Ala Val Cys
           100          105          110
Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala Asp Gly
           115          120          125
Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile Lys Glu Ala
           130          135          140
Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys Cys Ser Asp Met
145          150          155          160
Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln Met His Val Met Met
           165          170          175
Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly His Ile Phe Asn Asp Ala
           180          185          190
Leu Val Phe Leu Pro Pro Asn Gly Ser Asp Asn Asp
           195          200          204

```

&lt;210&gt; 1198

&lt;211&gt; 238

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1198

```

His Glu Gly Lys Pro Thr Arg Gly Arg Gly Gly Ser Leu Ser
 1          5          10          15
Thr Arg Gly Arg Gly Ser Glu Val Pro Asp Ser Ala His Leu Ala Pro
          20          25          30
Thr Pro Leu Phe Ser Glu Ser Gly Cys Cys Gly Leu Arg Ser Arg Phe
          35          40          45
Leu Thr Asp Cys Lys Met Glu Glu Gly Gly Asn Leu Gly Gly Leu Ile
          50          55          60
Lys Met Val His Leu Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met
65          70          75
Trp Val Thr Phe Val Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg
          85          90          95
His Thr Phe Gly Leu Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His
          100          105          110
Ile Ser Met Gly Cys Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln
          115          120          125
His Ala Trp Ala Gln Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu
          130          135          140
Leu Phe Leu Ser Leu Thr Leu Ala Thr Val Asn Ala Arg Trp Leu Glu
145          150          155          160
Pro Arg Thr Thr Ala Ala Met Trp Ala Leu Gln Thr Val Glu Lys Glu
          165          170          175
Arg Gly Leu Gly Gly Glu Val Pro Gly Ser His Gln Gly Pro Asp Pro
          180          185          190
Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys Tyr Ser Ala Leu Arg Gln
          195          200          205
Asn Phe Phe Arg Tyr His Gly Leu Ser Ser Leu Cys Asn Leu Gly Cys
210          215          220
Val Leu Ser Asn Gly Leu Cys Leu Ala Ala Leu Pro Trp Lys
225          230          235          238

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&lt;210&gt; 1199

&lt;211&gt; 100

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1199

```

Lys Gln Leu Asp Lys Lys Gln Leu Arg Ala Asp Pro Ser Gly Ser Leu Pro
 1          5          10          15
Pro Leu Pro Pro Ser Pro Pro Pro Pro Leu Glu Ala Gly Gly Arg Pro
          20          25          30
Pro Glu Val Pro Pro Arg Gly Pro Ser Ala Val Pro Ser Phe Pro Ser
          35          40          45
Val Ser Gly Asp Trp Gly Gly Pro Val Glu Ala Gly Glu Gly Gly Gln
          50          55          60
Gln Gly Arg Gly Arg Ala Arg Ala Arg Pro Cys Ser Leu Pro Pro Leu
65          70          75          80
Leu Pro Pro Ser Pro Val Cys Arg Leu Ser Gly Ser Arg Ala Pro Leu
          85          90          95
Gly Cys Asp Gly
          100

```

<210> 1200  
 <211> 194  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1200  
 Arg Asn Gln Leu Ser Ser Gln Lys Ser Val Pro Trp Val Pro Ile Leu  
 1 5 10 15  
 Lys Ser Leu Pro Leu Trp Ala Ile Val Val Ala His Phe Ser Tyr Asn  
 20 25 30  
 Trp Thr Phe Tyr Thr Leu Leu Thr Leu Leu Pro Thr Tyr Met Lys Glu  
 35 40 45  
 Ile Leu Arg Phe Asn Val Gln Glu Asn Gly Phe Leu Ser Ser Leu Pro  
 50 55 60  
 Tyr Leu Gly Ser Trp Leu Cys Met Ile Leu Ser Gly Gln Ala Ala Asp  
 65 70 75 80  
 Asn Leu Arg Ala Lys Trp Asn Phe Ser Thr Leu Cys Val Arg Arg Ile  
 85 90 95  
 Phe Ser Leu Ile Gly Met Ile Gly Pro Ala Val Phe Leu Val Ala Ala  
 100 105 110  
 Gly Phe Ile Gly Cys Asp Tyr Ser Leu Ala Val Ala Phe Leu Thr Ile  
 115 120 125  
 Ser Thr Thr Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His  
 130 135 140  
 Leu Asp Ile Ala Pro Ser Tyr Ala Gly Ile Leu Leu Gly Ile Thr Asn  
 145 150 155 160  
 Thr Phe Ala Thr Ile Pro Gly Met Val Gly Pro Val Ile Ala Lys Ser  
 165 170 175  
 Leu Thr Pro Asp Met Gly Ile Ser Leu His Arg Pro Gly Trp Ser Ala  
 180 185 190  
 Val Ala  
 194

<210> 1201  
 <211> 119  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1201  
 Gly Pro Ser Gly Thr Thr His Ala Ser Ala His Ser Gly His Pro Gly  
 1 5 10 15  
 Ser Pro Arg Gly Ser Leu Ser Arg His Pro Ser Ser Gln Leu Ala Gly  
 20 25 30  
 Pro Gly Val Glu Gly Gly Glu Gly Thr Gln Lys Pro Arg Asp Tyr Ile  
 35 40 45  
 Ile Leu Ala Ile Leu Ser Cys Phe Cys Pro Met Trp Pro Val Asn Ile  
 50 55 60  
 Val Ala Phe Ala Tyr Ala Val Met Ser Arg Asn Ser Leu Gln Gln Gly  
 65 70 75 80  
 Asp Val Asp Gly Ala Gln Arg Leu Gly Arg Val Ala Lys Leu Leu Ser  
 85 90 95  
 Ile Val Ala Leu Val Gly Gly Val Leu Ile Ile Ala Ser Cys Val  
 100 105 110  
 Ile Asn Leu Gly Val Tyr Lys  
 115 119

<210> 1202  
 <211> 66  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1202  
 Ser Leu Phe Leu Ser Phe Pro Pro Leu Ser Phe Lys Met Thr Leu Asn  
 1 5 10 15  
 Asp Ala Met Arg Asn Lys Ala Arg Leu Ser Ile Thr Gly Ser Thr Gly  
 20 25 30  
 Glu Asn Gly Arg Val Met Thr Pro Glu Phe Pro Lys Ala Val His Ala  
 35 40 45  
 Val Pro Tyr Val Ser Pro Gly Met Gly Met Asn Val Ser Val Thr Asp  
 50 55 60  
 Leu Ser  
 65 66

<210> 1203  
 <211> 509  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1203  
 Asp Asp Val Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly  
 1 5 10 15  
 Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg  
 20 25 30  
 Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val  
 35 40 45  
 Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys  
 50 55 60  
 Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala  
 65 70 75 80  
 Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu  
 85 90 95  
 Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr  
 100 105 110  
 Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser  
 115 120 125  
 Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln  
 130 135 140  
 Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe  
 145 150 155 160  
 Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu  
 165 170 175  
 His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln  
 180 185 190  
 Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser  
 195 200 205  
 Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala  
 210 215 220  
 Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala  
 225 230 235 240

```

Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
      245      250      255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
      260      265      270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
      275      280      285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
      290      295      300
Tyr Val His Leu Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu
      305      310      315      320
Leu Leu Glu Lys Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu
      325      330      335
Leu Gln Gln Leu Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg
      340      345      350
Pro Ile Asp His Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala
      355      360      365
Pro Gly Arg Thr Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu
      370      375      380
Phe Tyr Leu Glu Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala
      385      390      395      400
Val Asp Ala Phe Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile
      405      410      415
Phe Val Ala His Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val
      420      425      430
Phe Ile Gly Asp Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg
      435      440      445
Ser Gln Val Thr His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly
      450      455      460
Ile Val Ala Thr Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser
      465      470      475      480
Ala Ala Gln Asp Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr
      485      490      495
Gln Gln Phe Arg Arg Val Leu Gly Gln Leu Ala Ala Ala
      500      505      509

```

&lt;210&gt; 1204

&lt;211&gt; 453

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(453)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1204

```

Glu Met Glu Glu Glu Pro Gln Lys Ser Tyr Val Asn Thr Met Asp Leu Glu
  1          5          10          15
Arg Asp Glu Pro Leu Lys Ser Thr Gly Pro Gln Ile Ser Val Ser Glu
      20      25      30
Phe Ser Cys His Cys Cys Tyr Asp Ile Leu Val Asn Pro Thr Thr Leu
      35      40      45
Asn Cys Gly His Ser Phe Cys Arg His Cys Leu Ala Leu Trp Trp Ala
      50      55      60
Ser Ser Lys Lys Thr Glu Cys Pro Glu Cys Arg Glu Lys Trp Glu Gly
      65      70      75      80
Phe Pro Lys Val Ser Ile Leu Leu Arg Asp Ala Ile Glu Lys Leu Phe
      85      90      95
Pro Asp Ala Ile Arg Leu Arg Phe Glu Asp Ile Gln Gln Asn Asn Asp

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100 105 110  
 Ile Val Gln Ser Leu Ala Ala Phe Gln Lys Tyr Gly Asn Asp Gln Ile  
 115 120 125  
 Pro Leu Ala Pro Asn Thr Gly Arg Ala Asn Gln Gln Met Gly Gly Gly  
 130 135 140  
 Phe Phe Ser Gly Val Leu Thr Ala Leu Thr Gly Val Ala Val Val Leu  
 145 150 155 160  
 Leu Val Tyr His Trp Ser Ser Arg Glu Ser Glu His Asp Leu Leu Val  
 165 170 175  
 His Lys Ala Val Ala Lys Trp Thr Ala Glu Glu Val Val Leu Trp Leu  
 180 185 190  
 Glu Gln Leu Gly Pro Trp Ala Ser Leu Tyr Arg Glu Arg Phe Leu Ser  
 195 200 205  
 Glu Arg Val Asn Gly Arg Leu Leu Leu Thr Leu Thr Glu Glu Phe  
 210 215 220  
 Ser Lys Thr Pro Tyr Thr Ile Glu Asn Ser Ser His Arg Arg Ala Ile  
 225 230 235 240  
 Leu Met Glu Leu Glu Arg Val Lys Ala Leu Gly Val Lys Pro Pro Gln  
 245 250 255  
 Asn Leu Trp Glu Tyr Lys Ala Val Asn Pro Gly Arg Ser Leu Phe Leu  
 260 265 270  
 Leu Tyr Ala Leu Lys Ser Ser Pro Arg Leu Ser Leu Leu Tyr Leu Tyr  
 275 280 285  
 Leu Phe Asp Tyr Thr Asp Thr Phe Leu Pro Phe Ile His Thr Ile Cys  
 290 295 300  
 Pro Leu Gln Glu Asp Ser Ser Gly Glu Asp Ile Val Thr Lys Leu Leu  
 305 310 315 320  
 Asp Leu Lys Glu Pro Thr Trp Lys Gln Trp Arg Glu Phe Leu Val Lys  
 325 330 335  
 Tyr Ser Phe Leu Pro Tyr Gln Leu Ile Ala Glu Phe Ala Trp Asp Trp  
 340 345 350  
 Leu Glu Val His Tyr Trp Thr Ser Arg Phe Leu Ile Ile Asn Ala Met  
 355 360 365  
 Leu Leu Ser Val Leu Glu Leu Phe Ser Phe Trp Arg Ile Trp Ser Arg  
 370 375 380  
 Ser Glu Leu Lys Xaa Val Gly Phe Arg Phe Leu Arg Leu Gly Val Ala  
 385 390 395 400  
 Ala Leu Gly Ser Val Glu Val Ala Gly Leu Arg Gly Val Val Lys Gly  
 405 410 415  
 Glu Arg Pro Leu Leu Tyr Gly His Gly Ala Gly Ala Arg Phe Pro His  
 420 425 430  
 Ser Val Leu Leu Leu Pro Val Ala Lys Pro Leu Pro Leu Pro Leu Leu  
 435 440 445  
 Pro Arg Gly Leu Cys  
 450 453

&lt;210&gt; 1205

&lt;211&gt; 80

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1205

Glu Lys Ala Arg Met Ile Tyr Glu Asp Tyr Ile Ser Ile Leu Ser Pro  
 1 5 10 15  
 Lys Glu Val Ser Leu Asp Ser Arg Val Arg Glu Val Ile Asn Arg Asn  
 20 25 30  
 Leu Leu Asp Pro Asn Pro His Met Tyr Glu Asp Ala Gln Leu Gln Ile  
 35 40 45  
 Tyr Thr Leu Met His Arg Asp Ser Phe Pro Arg Phe Leu Asn Ser Gln

50 55 60  
 Ile Tyr Lys Ser Phe Val Glu Ser Thr Ala Gly Ser Ser Ser Glu Ser  
 65 70 75 80

<210> 1206  
 <211> 205  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1206  
 Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile Ser Asp Phe  
 1 5 10 15  
 Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met Ser Thr Ala Cys  
 20 25 30  
 Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu Ala Gln Lys Pro Tyr  
 35 40 45  
 Ser Lys Ala Val Asp Cys Trp Ser Ile Gly Val Ile Ala Tyr Ile Leu  
 50 55 60  
 Leu Cys Gly Tyr Pro Pro Phe Tyr Asp Glu Asn Asp Ser Lys Leu Phe  
 65 70 75 80  
 Glu Gln Ile Leu Lys Ala Glu Tyr Glu Phe Asp Ser Pro Tyr Trp Asp  
 85 90 95  
 Asp Ile Ser Asp Ser Ala Lys Asp Phe Ile Arg Asn Leu Met Glu Lys  
 100 105 110  
 Asp Pro Asn Lys Arg Tyr Thr Cys Glu Gln Ala Ala Arg His Pro Trp  
 115 120 125  
 Ile Ala Gly Asp Thr Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser  
 130 135 140  
 Ala Gln Ile Arg Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe  
 145 150 155 160  
 Asn Ala Thr Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser  
 165 170 175  
 Ser Leu Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala  
 180 185 190  
 Ser Gln Lys Asp Cys Ala Ser Gly Thr Phe His Ala Leu  
 195 200 205

<210> 1207  
 <211> 117  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1207  
 Arg Thr Arg Gly Gly Ala Val Ser Phe Glu Asp Phe Ile Lys Gly Leu  
 1 5 10 15  
 Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys Leu Asn Trp Ala Phe  
 20 25 30  
 Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met  
 35 40 45  
 Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly Lys Cys Thr Tyr  
 50 55 60  
 Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe



65				70				75				80			
Gln	Lys	Met	Asp	Lys	Asn	Lys	Asp	Gly	Val	Val	Thr	Ile	Asp	Glu	Phe
				85					90					95	
Ile	Glu	Ser	Cys	Gln	Lys	Asp	Glu	Asn	Ile	Met	Arg	Ser	Met	Gln	Leu
			100					105					110		
Phe	Glu	Asn	Val	Ile											
		115		117											

&lt;210&gt; 1208

&lt;211&gt; 337

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1208

Pro	Arg	Ser	Pro	Glu	His	His	Thr	Pro	Ala	Trp	His	Glu	Gly	Arg	Ser
1				5				10					15		
Leu	Gly	Pro	Ile	Met	Ala	Ser	Met	Ala	Asp	Arg	Asn	Met	Lys	Leu	Phe
		20						25					30		
Ser	Gly	Arg	Val	Val	Pro	Ala	Gln	Gly	Glu	Glu	Thr	Phe	Glu	Asn	Trp
		35					40					45			
Leu	Thr	Gln	Val	Asn	Gly	Val	Leu	Pro	Asp	Trp	Asn	Met	Ser	Glu	Glu
	50					55					60				
Glu	Lys	Leu	Lys	Arg	Leu	Met	Lys	Thr	Leu	Arg	Gly	Pro	Ala	Arg	Glu
65					70				75					80	
Val	Met	Arg	Val	Leu	Gln	Ala	Thr	Asn	Pro	Asn	Leu	Ser	Val	Ala	Asp
			85					90					95		
Phe	Leu	Arg	Ala	Met	Lys	Leu	Val	Phe	Gly	Glu	Ser	Glu	Ser	Ser	Val
		100					105						110		
Thr	Ala	His	Gly	Lys	Phe	Phe	Asn	Thr	Leu	Gln	Ala	Gln	Gly	Glu	Lys
		115					120					125			
Ala	Ser	Leu	Tyr	Val	Ile	Arg	Leu	Glu	Val	Gln	Leu	Gln	Asn	Ala	Ile
	130					135				140					
Gln	Ala	Gly	Ile	Ile	Ala	Glu	Lys	Asp	Ala	Asn	Arg	Thr	Arg	Leu	Gln
145					150				155					160	
Gln	Leu	Leu	Leu	Gly	Glu	Leu	Ser	Arg	Asp	Leu	Arg	Leu	Arg	Leu	
		165						170					175		
Lys	Asp	Phe	Leu	Arg	Met	Tyr	Ala	Asn	Glu	Gln	Glu	Arg	Leu	Pro	Asn
		180						185					190		
Phe	Leu	Glu	Leu	Ile	Lys	Met	Val	Arg	Glu	Glu	Glu	Asp	Trp	Asp	Asp
	195						200					205			
Ala	Phe	Ile	Lys	Arg	Lys	Arg	Pro	Lys	Arg	Ser	Glu	Ser	Met	Val	Glu
210					215						220				
Arg	Ala	Val	Ser	Pro	Val	Ala	Phe	Gln	Gly	Ser	Pro	Pro	Ile	Val	Ile
225					230				235					240	
Gly	Ser	Ala	Asp	Cys	Asn	Val	Ile	Glu	Ile	Asp	Asp	Thr	Leu	Asp	Asp
			245					250					255		
Ser	Asp	Glu	Asp	Val	Ile	Leu	Val	Glu	Ser	Gln	Asp	Pro	Pro	Leu	Pro
	260						265					270			
Ser	Trp	Gly	Ala	Pro	Pro	Leu	Arg	Asp	Arg	Ala	Arg	Pro	Gln	Asp	Glu
	275					280						285			
Val	Leu	Val	Ile	Asp	Ser	Pro	His	Asn	Ser	Arg	Ala	Gln	Phe	Pro	Ser
	290					295					300				
Thr	Ser	Gly	Gly	Ser	Gly	Tyr	Lys	Asn	Asn	Gly	Pro	Gly	Glu	Met	Arg
305					310				315					320	
Arg	Ala	Arg	Lys	Arg	Lys	His	Thr	Ile	Arg	Cys	Ser	Tyr	Cys	Gly	Glu
			325					330						335	
Glu															
337															

<210> 1209  
 <211> 64  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1209  
 Ser Val Ala Cys Thr Val Pro Leu Arg Ser Met Ser Asp Pro Asp Gln  
 1 5 10 15  
 Asp Phe Asp Lys Glu Pro Asp Ser Asp Ser Thr Lys His Ser Thr Pro  
 20 25 30  
 Ser Asn Ser Ser Asn Pro Ser Gly Pro Ser Pro Asn Ser Pro His  
 35 40 45  
 Arg Ser Gln Leu Pro Leu Glu Gly Leu Glu Gln Pro Ala Cys Asp Thr  
 50 55 60 64

<210> 1210  
 <211> 316  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1210  
 Tyr Ser Ala Val Glu Phe Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly  
 1 5 10 15  
 Asp Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys  
 20 25 30  
 Gly Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala  
 35 40 45  
 Glu Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser  
 50 55 60  
 Ser Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg  
 65 70 75 80  
 Pro Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg  
 85 90 95  
 Lys Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys  
 100 105 110  
 Glu Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys  
 115 120 125  
 Phe Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala  
 130 135 140  
 Leu Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys  
 145 150 155 160  
 Asn Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala  
 165 170 175  
 Asn Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys  
 180 185 190  
 Ser Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys  
 195 200 205  
 Ala Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu  
 210 215 220  
 Leu Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser  
 225 230 235 240  
 Thr Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly

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      245      |      |      250      |      |      255
Glu Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu
      260      |      |      265      |      |      270
Gly Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu
      275      |      |      280      |      |      285
Gly Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg
      290      |      |      295      |      |      300
Ala Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
      305      |      |      310      |      |      315 316

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<210> 1211  
 <211> 767  
 <212> Amino acid  
 <213> Homo sapiens

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      <400> 1211
Leu Ala Glu Leu Ser Ser Leu Ser Val Leu Arg Leu Ser His Asn Ser
  1      |      |      |      |      |      |      |      |      |
      5      |      |      |      |      |      |      |      |
Ile Ser His Ile Ala Glu Gly Ala Phe Lys Gly Leu Arg Ser Leu Arg
      20      |      |      |      |      |      |      |      |
      25      |      |      |      |      |      |      |      |
Val Leu Asp Leu Asp His Asn Glu Ile Ser Gly Thr Ile Glu Asp Thr
      35      |      |      |      |      |      |      |      |
      40      |      |      |      |      |      |      |      |
Ser Gly Ala Phe Ser Gly Leu Asp Ser Leu Ser Lys Leu Thr Leu Phe
      50      |      |      |      |      |      |      |      |
      55      |      |      |      |      |      |      |      |
Gly Asn Lys Ile Lys Ser Val Ala Lys Arg Ala Phe Ser Gly Leu Glu
      65      |      |      |      |      |      |      |      |
      70      |      |      |      |      |      |      |      |
Gly Leu Glu His Leu Asn Leu Gly Gly Asn Ala Ile Arg Ser Val Gln
      85      |      |      |      |      |      |      |      |
      90      |      |      |      |      |      |      |      |
Phe Asp Ala Phe Val Lys Met Lys Asn Leu Lys Glu Leu His Ile Ser
      100     |      |      |      |      |      |      |      |
      105     |      |      |      |      |      |      |      |
Ser Asp Ser Phe Leu Cys Asp Cys Gln Leu Lys Trp Leu Pro Pro Trp
      115     |      |      |      |      |      |      |      |
      120     |      |      |      |      |      |      |      |
Leu Ile Gly Arg Met Leu Gln Ala Phe Val Thr Ala Thr Cys Ala His
      130     |      |      |      |      |      |      |      |
      135     |      |      |      |      |      |      |      |
Pro Glu Ser Leu Lys Gly Gln Ser Ile Phe Ser Val Pro Pro Glu Ser
      145     |      |      |      |      |      |      |      |
      150     |      |      |      |      |      |      |      |
Phe Val Cys Asp Asp Phe Leu Lys Pro Gln Ile Ile Thr Gln Pro Glu
      165     |      |      |      |      |      |      |      |
      170     |      |      |      |      |      |      |      |
Thr Thr Met Ala Met Val Gly Lys Asp Ile Arg Phe Thr Cys Ser Ala
      180     |      |      |      |      |      |      |      |
      185     |      |      |      |      |      |      |      |
Ala Ser Ser Ser Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn
      195     |      |      |      |      |      |      |      |
      200     |      |      |      |      |      |      |      |
Glu Val Leu Thr Asn Ala Asp Met Glu Asn Phe Val His Val His Ala
      210     |      |      |      |      |      |      |      |
      215     |      |      |      |      |      |      |      |
Gln Asp Gly Glu Val Met Glu Tyr Thr Thr Ile Leu His Leu Arg Gln
      225     |      |      |      |      |      |      |      |
      230     |      |      |      |      |      |      |      |
Val Thr Phe Gly His Glu Gly Arg Tyr Gln Cys Val Ile Thr Asn His
      245     |      |      |      |      |      |      |      |
      250     |      |      |      |      |      |      |      |
Phe Gly Ser Thr Tyr Ser His Lys Ala Arg Leu Thr Val Asn Val Leu
      260     |      |      |      |      |      |      |      |
      265     |      |      |      |      |      |      |      |
Pro Ser Phe Thr Lys Thr Pro His Asp Ile Thr Ile Arg Thr Thr Thr
      275     |      |      |      |      |      |      |      |
      280     |      |      |      |      |      |      |      |
Met Ala Arg Leu Glu Cys Ala Ala Thr Gly His Pro Asn Pro Gln Ile
      290     |      |      |      |      |      |      |      |
      295     |      |      |      |      |      |      |      |
Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro Ala Ala Arg Glu Arg
      305     |      |      |      |      |      |      |      |
      310     |      |      |      |      |      |      |      |
Arg Met His Val Met Pro Asp Asp Asp Val Phe Phe Ile Thr Asp Val
      325     |      |      |      |      |      |      |      |
      330     |      |      |      |      |      |      |      |
Lys Ile Asp Asp Ala Gly Val Tyr Ser Cys Thr Ala Gln Asn Ser Ala

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340										345										350									
Gly	Ser	Ile	Ser	Ala	Asn	Ala	Thr	Leu	Thr	Val	Leu	Glu	Thr	Pro	Ser														
		355						360				365																	
Leu	Val	Val	Pro	Leu	Glu	Asp	Arg	Val	Val	Ser	Val	Gly	Glu	Thr	Val														
		370				375					380																		
Ala	Leu	Gln	Cys	Lys	Ala	Thr	Gly	Asn	Pro	Pro	Pro	Arg	Ile	Thr	Trp														
385					390					395					400														
Phe	Lys	Gly	Asp	Arg	Pro	Leu	Ser	Leu	Thr	Glu	Arg	His	His	Leu	Thr														
				405					410					415															
Pro	Asp	Asn	Gln	Leu	Leu	Val	Val	Gln	Asn	Val	Val	Ala	Glu	Asp	Ala														
			420					425				430																	
Gly	Arg	Tyr	Thr	Cys	Glu	Met	Ser	Asn	Thr	Leu	Gly	Thr	Glu	Arg	Ala														
		435				440					445																		
His	Ser	Gln	Leu	Ser	Val	Leu	Pro	Ala	Ala	Gly	Cys	Arg	Lys	Asp	Gly														
		450				455					460																		
Thr	Thr	Val	Gly	Ile	Phe	Thr	Ile	Ala	Val	Val	Ser	Ser	Ile	Val	Leu														
465					470					475					480														
Thr	Ser	Leu	Val	Trp	Val	Cys	Ile	Ile	Tyr	Gln	Thr	Arg	Lys	Lys	Ser														
				485					490					495															
Glu	Glu	Tyr	Ser	Val	Thr	Asn	Thr	Asp	Glu	Thr	Val	Val	Pro	Pro	Asp														
		500						505					510																
Val	Pro	Ser	Tyr	Leu	Ser	Ser	Gln	Gly	Thr	Leu	Ser	Asp	Arg	Gln	Glu														
		515					520					525																	
Thr	Val	Val	Arg	Thr	Glu	Gly	Gly	Pro	Gln	Ala	Asn	gly	His	Ile	Glu														
		530				535					540																		
Ser	Asn	Gly	Val	Cys	Pro	Arg	Asp	Ala	Ser	His	Phe	Pro	Glu	Pro	Asp														
545					550					555					560														
Thr	His	Ser	Val	Ala	Cys	Arg	Gln	Pro	Lys	Leu	Cys	Ala	Gly	Ser	Ala														
				565					570					575															
Tyr	His	Lys	Lys	Pro	Trp	Lys	Ala	Met	Glu	Lys	Ala	Glu	Gly	Thr	Pro														
		580						585						590															
Gly	Pro	His	Lys	Met	Glu	His	Gly	Gly	Arg	Val	Val	Cys	Ser	Asp	Cys														
		595					600				605																		
Asn	Thr	Glu	Val	Asp	Cys	Tyr	Ser	Arg	Gly	Gln	Ala	Phe	His	Pro	Gln														
		610				615					620																		
Pro	Val	Ser	Arg	Asp	Ser	Ala	Gln	Pro	Ser	Ala	Pro	Asn	Gly	Pro	Glu														
625					630					635					640														
Pro	Gly	Gly	Ser	Asp	Gln	Glu	His	Ser	Pro	His	His	Gln	Cys	Ser	Arg														
				645																									

<210> 1212

<211> 821

<212>Amino acid

<213> Homo sapiens

<400> 1212  
 Ala Ala Ala Gly Ala Ala Arg Arg Val Ser Val Arg Cys Gly Arg Ser  
 1 5 10 15  
 Gly Pro Gly Pro Gly Arg Gly Ala Ala Gly Leu Ser Pro Ala Asp Ile  
 20 25 30  
 Ala Leu Ala Ser Glu Gln Gly Ala Ser Cys Ser Val Arg Ala Pro Glu  
 35 40 45  
 Arg Lys Leu Arg Met Lys Leu Leu Trp Gln Ala Lys Met Ser Ser Ile  
 50 55 60  
 Gln Asp Trp Gly Glu Glu Val Glu Glu Gly Ala Val Tyr His Val Thr  
 65 70 75 80  
 Leu Lys Arg Val Gln Ile Gln Gln Ala Ala Asn Lys Gly Ala Arg Trp  
 85 90 95  
 Leu Gly Val Glu Gly Asp Gln Leu Pro Pro Gly His Thr Val Ser Gln  
 100 105 110  
 Tyr Glu Thr Cys Lys Ile Arg Thr Ile Lys Ala Gly Thr Leu Glu Lys  
 115 120 125  
 Leu Val Glu Asn Leu Leu Thr Ala Phe Gly Asp Asn Asp Phe Thr Tyr  
 130 135 140  
 Ile Ser Ile Phe Leu Ser Thr Tyr Arg Gly Phe Ala Ser Thr Lys Glu  
 145 150 155 160  
 Val Leu Glu Leu Leu Leu Asp Arg Tyr Gly Asn Leu Thr Ser Pro Asn  
 165 170 175  
 Cys Glu Glu Asp Gly Ser Gln Ser Ser Ser Glu Ser Lys Met Val Ile  
 180 185 190  
 Arg Asn Ala Ile Ala Ser Ile Leu Arg Ala Trp Leu Asp Gln Cys Ala  
 195 200 205  
 Glu Asp Phe Arg Glu Pro Pro His Phe Pro Cys Leu Gln Lys Leu Leu  
 210 215 220  
 Asp Tyr Leu Thr Arg Met Met Pro Gly Ser Asp Pro Glu Arg Arg Ala  
 225 230 235 240  
 Gln Asn Leu Leu Glu Gln Phe Gln Lys Gln Glu Val Glu Thr Asp Asn  
 245 250 255  
 Gly Leu Pro Asn Thr Ile Ser Phe Ser Leu Glu Glu Glu Glu Leu  
 260 265 270  
 Glu Gly Gly Glu Ser Ala Glu Phe Thr Cys Phe Ser Glu Asp Leu Val  
 275 280 285  
 Ala Glu Gln Leu Thr Tyr Met Asp Ala Gln Leu Phe Lys Lys Val Val  
 290 295 300  
 Pro His His Cys Leu Gly Cys Ile Trp Ser Arg Arg Asp Lys Lys Glu  
 305 310 315 320  
 Asn Lys His Leu Ala Pro Thr Ile Arg Ala Thr Ile Ser Gln Phe Asn  
 325 330 335  
 Thr Leu Thr Lys Cys Val Val Ser Thr Ile Leu Gly Gly Lys Glu Leu  
 340 345 350  
 Lys Thr Gln Gln Arg Ala Lys Ile Ile Glu Lys Trp Ile Asn Ile Ala  
 355 360 365  
 His Glu Cys Arg Leu Leu Lys Asn Phe Ser Ser Leu Arg Ala Ile Val  
 370 375 380  
 Ser Ala Leu Gln Ser Asn Ser Ile Tyr Arg Leu Lys Lys Thr Trp Ala  
 385 390 395 400  
 Ala Val Pro Arg Asp Arg Met Leu Met Phe Glu Glu Leu Ser Asp Ile  
 405 410 415  
 Phe Ser Asp His Asn Asn His Leu Thr Ser Arg Glu Leu Leu Met Lys  
 420 425 430  
 Glu Gly Thr Ser Lys Phe Ala Asn Leu Asp Ser Ser Val Lys Glu Asn  
 435 440 445  
 Gln Lys Arg Thr Gln Arg Arg Leu Gln Leu Gln Lys Asp Met Gly Val  
 450 455 460  
 Met Gln Gly Thr Val Pro Tyr Leu Gly Thr Phe Leu Thr Asp Leu Thr  
 465 470 475 480  
 Met Leu Asp Thr Ala Leu Gln Asp Tyr Ile Glu Gly Gly Leu Ile Asn  
 485 490 495  
 Phe Glu Lys Arg Arg Arg Glu Phe Glu Val Ile Ala Gln Ile Lys Leu

[illegible]

<210> 1213

&lt;211&gt; 289

<212>Amino acid

<213> Homo sapiens

<400> 1213

Ala	Arg	Glu	Lys	Met	Asp	Ser	Cys	Ile	Glu	Ala	Phe	Gly	Thr	Thr	Lys
1				5					10						15
Gln	Lys	Arg	Ala	Leu	Asn	Thr	Arg	Arg	Met	Asn	Arg	Val	Gly	Asn	Glu
			20						25					30	
Ser	Leu	Asn	Arg	Ala	Val	Ala	Lys	Ala	Ala	Glu	Thr	Ile	Ile	Asp	Thr
			35				40					45			
Lys	Gly	Val	Thr	Ala	Leu	Val	Ser	Asp	Ala	Ile	His	Asn	Asp	Leu	Gln
			50			55					60				
Asp	Asp	Ser	Leu	Tyr	Leu	Pro	Pro	Cys	Tyr	Asp	Asp	Ala	Ala	Lys	Pro
					70					75				80	
Glu	Asp	Val	Tyr	Lys	Phe	Glu	Asp	Leu	Leu	Ser	Pro	Ala	Glu	Tyr	Glu

	85		90		95										
Ala	Leu	Gln	Ser	Pro	Ser	Glu	Ala	Phe	Arg	Asn	Val	Thr	Ser	Glu	Glu
			100					105						110	
Ile	Leu	Lys	Met	Ile	Glu	Glu	Asn	Ser	His	Cys	Thr	Phe	Val	Ile	Glu
		115					120					125			
Ala	Leu	Lys	Ser	Leu	Pro	Ser	Asp	Val	Glu	Ser	Arg	Asp	Arg	Gln	Ala
	130					135					140				
Arg	Cys	Ile	Trp	Phe	Leu	Asp	Thr	Leu	Ile	Lys	Phe	Arg	Ala	His	Arg
	145				150					155				160	
Val	Val	Lys	Arg	Lys	Ser	Ala	Leu	Gly	Pro	Gly	Val	Pro	His	Ile	Ile
				165				170						175	
Asn	Thr	Lys	Leu	Leu	Lys	His	Phe	Thr	Cys	Leu	Thr	Tyr	Asn	Asn	Gly
		180						185					190		
Arg	Leu	Arg	Asn	Leu	Ile	Ser	Asp	Ser	Met	Lys	Ala	Lys	Ile	Thr	Ala
		195					200					205			
Tyr	Val	Ile	Ile	Leu	Ala	Leu	His	Ile	His	Asp	Phe	Gln	Ile	Asp	Leu
	210					215						220			
Thr	Val	Leu	Gln	Arg	Asp	Leu	Lys	Leu	Ser	Glu	Lys	Arg	Met	Met	Glu
	225				230					235				240	
Ile	Ala	Lys	Ala	Met	Arg	Leu	Lys	Ile	Ser	Lys	Arg	Arg	Val	Ser	Val
			245						250					255	
Ala	Ala	Gly	Ser	Glu	Glu	Asp	His	Lys	Leu	Gly	Thr	Leu	Ser	Leu	Pro
		260						265				270			
Leu	Pro	Pro	Ala	Gln	Thr	Ser	Asp	Arg	Leu	Ala	Lys	Arg	Arg	Lys	Ile
		275					280					285			
Thr															
289															

&lt;210&gt; 1214

&lt;211&gt; 873

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1214

Leu	Ser	Leu	Phe	Gly	Ser	Arg	Ala	Leu	Gly	Arg	Ser	Gly	Ala	Arg	Ala
1				5					10				15		
Met	Ala	Lys	Ala	Lys	Lys	Val	Gly	Ala	Arg	Arg	Lys	Ala	Ser	Gly	Ala
			20						25				30		
Pro	Ala	Gly	Ala	Arg	Gly	Gly	Pro	Ala	Lys	Ala	Asn	Ser	Asn	Pro	Phe
		35					40					45			
Glu	Val	Lys	Val	Asn	Arg	Gln	Lys	Phe	Gln	Ile	Leu	Gly	Arg	Lys	Thr
	50					55					60				
Arg	His	Asp	Val	Gly	Leu	Pro	Gly	Val	Ser	Arg	Ala	Arg	Ala	Leu	Arg
	65					70				75				80	
Lys	Arg	Thr	Gln	Thr	Leu	Leu	Lys	Glu	Tyr	Lys	Glu	Arg	Asp	Lys	Ser
			85						90				95		
Asn	Val	Phe	Arg	Asp	Lys	Arg	Phe	Gly	Glu	Tyr	Asn	Ser	Asn	Met	Ser
		100						105					110		
Pro	Glu	Glu	Lys	Met	Met	Lys	Arg	Phe	Ala	Leu	Glu	Gln	Gln	Arg	His
		115					120					125			
His	Glu	Lys	Lys	Ser	Ile	Tyr	Asn	Leu	Asn	Glu	Asp	Glu	Glu	Leu	Thr
	130					135					140				
His	Tyr	Gly	Gln	Ser	Leu	Ala	Asp	Ile	Glu	Lys	His	Asn	Asp	Ile	Val
	145				150					155				160	
Asp	Ser	Asp	Ser	Asp	Ala	Glu	Asp	Arg	Gly	Thr	Leu	Ser	Gly	Glu	Leu
			165						170					175	
Thr	Ala	Ala	His	Phe	Gly	Gly	Gly	Gly	Gly	Leu	Leu	His	Lys	Lys	Thr
			180					185					190		
Gln	Gln	Glu	Gly	Glu	Glu	Arg	Glu	Lys	Pro	Lys	Ser	Arg	Lys	Glu	Leu

195 200 205  
 Ile Glu Leu Ile Ala Lys Ser Lys Gln Glu Lys Arg Glu Arg Gln  
 210 215 220  
 Ala Gln Arg Glu Asp Ala Leu Glu Leu Thr Glu Lys Leu Asp Gln Asp  
 225 230 235 240  
 Trp Lys Glu Ile Gln Thr Leu Leu Ser His Lys Thr Pro Lys Ser Glu  
 245 250 255  
 Asn Arg Asp Lys Lys Glu Lys Pro Lys Pro Asp Ala Tyr Asp Met Met  
 260 265 270  
 Val Arg Glu Leu Gly Phe Glu Met Lys Ala Gln Pro Ser Asn Arg Met  
 275 280 285  
 Lys Thr Glu Ala Glu Leu Ala Lys Glu Glu Gln Glu His Leu Arg Lys  
 290 295 300  
 Leu Glu Ala Glu Arg Leu Arg Arg Met Leu Gly Lys Asp Glu Asp Glu  
 305 310 315 320  
 Asn Val Lys Lys Pro Lys His Met Ser Ala Asp Asp Leu Asn Asp Gly  
 325 330 335  
 Phe Val Leu Asp Lys Asp Asp Arg Arg Leu Leu Ser Tyr Lys Asp Gly  
 340 345 350  
 Lys Met Asn Val Glu Glu Asp Val Gln Glu Glu Gln Ser Lys Glu Ala  
 355 360 365  
 Ser Asp Pro Glu Ser Asn Glu Glu Glu Gly Asp Ser Ser Gly Gly Glu  
 370 375 380  
 Asp Thr Glu Glu Ser Asp Ser Pro Asp Ser His Leu Asp Leu Glu Ser  
 385 390 395 400  
 Asn Val Glu Ser Glu Glu Glu Asn Glu Lys Pro Ala Lys Glu Gln Arg  
 405 410 415  
 Gln Thr Pro Glu Lys Gly Leu Ile Ser Gly Lys Glu Arg Ala Gly Lys  
 420 425 430  
 Ala Thr Arg Asp Glu Leu Pro Tyr Thr Phe Ala Ala Pro Glu Ser Tyr  
 435 440 445  
 Glu Glu Leu Arg Ser Leu Leu Leu Gly Arg Ser Met Glu Glu Gln Leu  
 450 455 460  
 Leu Val Val Glu Arg Ile Gln Lys Cys Asn His Pro Ser Leu Ala Glu  
 465 470 475 480  
 Gly Asn Lys Ala Lys Leu Glu Lys Leu Phe Gly Phe Leu Leu Glu Tyr  
 485 490 495  
 Val Gly Asp Leu Ala Thr Asp Asp Pro Pro Asp Leu Thr Val Ile Asp  
 500 505 510  
 Lys Leu Val Val His Leu Tyr His Leu Cys Gln Met Phe Pro Glu Ser  
 515 520 525  
 Ala Ser Asp Ala Ile Lys Phe Val Leu Arg Asp Ala Met His Glu Met  
 530 535 540  
 Glu Glu Met Ile Glu Thr Lys Gly Arg Ala Ala Leu Pro Gly Leu Asp  
 545 550 555 560  
 Val Leu Ile Tyr Leu Lys Ile Thr Gly Leu Leu Phe Pro Thr Ser Asp  
 565 570 575  
 Phe Trp His Pro Val Val Thr Pro Ala Leu Val Cys Leu Ser Gln Leu  
 580 585 590  
 Leu Thr Lys Cys Pro Ile Leu Ser Leu Gln Asp Val Val Lys Gly Leu  
 595 600 605  
 Phe Val Cys Cys Leu Phe Leu Glu Tyr Val Ala Leu Ser Gln Arg Phe  
 610 615 620  
 Ile Pro Glu Leu Ile Asn Phe Leu Leu Gly Ile Leu Tyr Ile Ala Thr  
 625 630 635 640  
 Pro Asn Lys Ala Ser Gln Gly Ser Thr Leu Val His Pro Phe Arg Ala  
 645 650 655  
 Leu Gly Lys Asn Ser Glu Leu Leu Val Val Ser Ala Arg Glu Asp Val  
 660 665 670  
 Ala Thr Trp Gln Gln Ser Ser Leu Ser Leu Arg Trp Ala Ser Arg Leu  
 675 680 685  
 Arg Ala Pro Thr Ser Thr Glu Ala Asn His Ile Arg Leu Ser Cys Leu  
 690 695 700  
 Ala Val Gly Leu Ala Leu Leu Lys Arg Cys Val Leu Met Tyr Gly Ser



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705              710              715              720
Leu Pro Ser Phe His Ala Ile Met Gly Pro Leu Arg Ala Leu Leu Thr
              725              730              735
Asp His Leu Ala Asp Cys Ser His Pro Gln Glu Leu Gln Glu Leu Cys
              740              745              750
Gln Ser Thr Leu Thr Glu Met Glu Ser Gln Lys Gln Leu Cys Arg Pro
              755              760              765
Leu Thr Cys Glu Lys Ser Lys Pro Val Pro Leu Lys Leu Phe Thr Pro
              770              775              780
Arg Leu Val Lys Val Leu Glu Phe Gly Arg Lys Gln Gly Ser Ser Lys
              785              790              795
Glu Glu Gln Glu Arg Lys Arg Leu Ile His Lys His Lys Arg Glu Phe
              800              805              810
Lys Gly Ala Val Arg Glu Ile Arg Lys Asp Asn Gln Phe Leu Ala Arg
              815              820              825
Met Gln Leu Ser Glu Ile Met Glu Arg Asp Ala Glu Arg Lys Arg Lys
              830              835              840
Val Lys Gln Leu Phe Asn Ser Leu Ala Thr Gln Glu Gly Glu Trp Lys
              845              850              855
Ala Leu Lys Arg Lys Lys Phe Lys Lys
              860              865              870              873

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<210> 1215
<211> 319
<212> Amino acid
<213> Homo sapiens

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<400> 1215
Leu Thr Lys Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly
 1              5              10              15
Gln Ser Lys Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln
              20              25              30
Lys Pro Gly Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly
              35              40              45
Tyr Lys Arg Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala
              50              55              60
Met Pro Gly Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser
              65              70              75
Tyr Arg Cys Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr
              80              85              90              95
Gln Cys Ile Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu
              100              105              110
Val Ser Pro Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr
              115              120              125
Arg Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys
              130              135              140
Gln Arg Cys Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
              145              150              155              160
Ala Gly Lys Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile
              165              170              175
Gln Gly Glu Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro
              180              185              190
Lys Pro Gln Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu
              195              200              205
Asp Thr Glu Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu
              210              215              220
Glu Arg Ser Val Gln Gln Ser His Pro Thr Ala Thr Thr Thr Pro Ala
              225              230              235              240
Arg Pro Tyr Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg

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245 250 255  
 Trp Phe Leu Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala  
 260 265 270  
 Pro Thr Gln Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile  
 275 280 285  
 Cys Gly His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His  
 290 295 300  
 Cys Asn Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val  
 305 310 315 319

<210> 1216  
 <211> 815  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1216  
 Met Ala Gly Gly His Cys Gly Ser Phe Pro Ala Ala Ala Ala Gly Ser  
 1 5 10 15  
 Gly Glu Ile Val Gln Leu Asn Val Gly Gly Thr Arg Phe Ser Thr Ser  
 20 25 30  
 Arg Gln Thr Leu Met Trp Ile Pro Asp Ser Phe Phe Ser Ser Leu Leu  
 35 40 45  
 Ser Gly Arg Ile Ser Thr Leu Arg Asp Glu Thr Gly Ala Ile Phe Ile  
 50 55 60  
 Asp Arg Asp Pro Ala Ala Phe Ala Pro Ile Leu Asn Phe Leu Arg Thr  
 65 70 75 80  
 Lys Glu Leu Asp Leu Arg Gly Val Ser Ile Asn Val Leu Arg His Glu  
 85 90 95  
 Ala Glu Phe Tyr Gly Ile Thr Pro Leu Val Arg Arg Leu Leu Cys  
 100 105 110  
 Glu Glu Leu Glu Arg Ser Ser Cys Gly Ser Val Leu Phe His Gly Tyr  
 115 120 125  
 Leu Pro Pro Pro Gly Ile Pro Ser Arg Lys Ile Asn Asn Thr Val Arg  
 130 135 140  
 Ser Ala Asp Ser Arg Asn Gly Leu Asn Ser Thr Glu Gly Glu Ala Arg  
 145 150 155 160  
 Gly Asn Gly Thr Gln Pro Val Leu Ser Gly Thr Gly Glu Glu Thr Val  
 165 170 175  
 Arg Leu Gly Phe Pro Val Asp Pro Arg Lys Val Leu Ile Val Ala Gly  
 180 185 190  
 His His Asn Trp Ile Val Ala Ala Tyr Ala His Phe Ala Val Trp Tyr  
 195 200 205  
 Arg Ile Lys Glu Ser Ser Gly Trp Gln Gln Val Phe Thr Ser Pro Tyr  
 210 215 220  
 Leu Asp Trp Thr Ile Glu Arg Val Ala Leu Asn Ala Lys Val Val Gly  
 225 230 235 240  
 Gly Pro His Gly Asp Lys Asp Lys Met Val Ala Val Ala Ser Glu Ser  
 245 250 255  
 Ser Ile Ile Leu Trp Ser Val Gln Asp Gly Gly Ser Gly Ser Glu Ile  
 260 265 270  
 Gly Val Phe Ser Leu Gly Val Pro Val Asp Ala Leu Phe Phe Ile Gly  
 275 280 285  
 Asn Gln Leu Val Ala Thr Ser His Thr Gly Lys Val Gly Val Trp Asn  
 290 295 300  
 Ala Val Thr Gln His Trp Gln Val Gln Asp Val Val Pro Ile Thr Ser  
 305 310 315 320  
 Tyr Asp Thr Ala Gly Ser Phe Leu Leu Leu Gly Cys Asn Asn Gly Ser  
 325 330 335  
 Ile Tyr Tyr Ile Asp Met Gln Lys Phe Pro Leu Arg Met Lys Asp Asn

Asp	Leu	Leu	Val	Thr	Glu	Leu	Tyr	His	Asp	Pro	Ser	Asn	Asp	Ala	Ile
355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355
Thr	Ala	Leu	Ser	Val	Tyr	Leu	Thr	Pro	Lys	Thr	Ser	Val	Ser	Gly	Asn
370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
Trp	Ile	Glu	Ile	Ala	Tyr	Gly	Thr	Ser	Ser	Gly	Ala	Val	Arg	Val	Ile
385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385
Val	Gln	His	Pro	Glu	Thr	Val	Gly	Ser	Gly	Pro	Gln	Leu	Phe	Gln	Thr
405	405	405	405	405	405	405	405	405	405	405	405	405	405	405	405
Phe	Thr	Val	His	Arg	Ser	Pro	Val	Thr	Lys	Ile	Met	Leu	Ser	Glu	Lys
420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420
His	Leu	Val	Ser	Val	Cys	Ala	Asp	Asn	Asn	His	Val	Arg	Thr	Trp	Thr
435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435
Val	Thr	Arg	Phe	Arg	Gly	Met	Ile	Ser	Thr	Gln	Pro	Gly	Ser	Thr	Pro
450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leu	Ala	Ser	Phe	Lys	Ile	Leu	Ser	Leu	Glu	Glu	Thr	Glu	Ser	His	Gly
465	465	465	465	465	465	465	465	465	465	465	465	465	465	465	465
Ser	Tyr	Ser	Ser	Gly	Asn	Asp	Ile	Gly	Pro	Phe	Gly	Glu	Arg	Asp	Asp
485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485
Gln	Gln	Val	Phe	Ile	Gln	Lys	Val	Val	Pro	Ile	Thr	Asn	Lys	Leu	Phe
500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Val	Arg	Leu	Ser	Ser	Thr	Gly	Lys	Arg	Ile	Cys	Glu	Ile	Gln	Ala	Val
515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515
Asp	Cys	Thr	Thr	Ile	Ser	Ser	Phe	Thr	Gly	Arg	Glu	Cys	Glu	Gly	Ser
530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
Ser	Arg	Met	Gly	Ser	Arg	Pro	Arg	Arg	Tyr	Leu	Phe	Thr	Gly	His	Thr
545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545
Asn	Gly	Ser	Ile	Gln	Met	Trp	Asp	Leu	Thr	Thr	Ala	Met	Asp	Met	Val
565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565
Asn	Lys	Ser	Glu	Asp	Lys	Asp	Val	Gly	Gly	Pro	Thr	Glu	Glu	Glu	Leu
580	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580
Leu	Lys	Leu	Leu	Asp	Gln	Cys	Asp	Leu	Ser	Thr	Ser	Arg	Cys	Ala	Thr
595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595
Pro	Asn	Ile	Ser	Pro	Ala	Thr	Ser	Val	Val	Gln	His	Ser	His	Leu	Arg
610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610
Glu	Ser	Asn	Ser	Ser	Leu	Gln	Leu	Gln	His	His	Asp	Thr	Thr	His	

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<210> 1217
<211> 459
<212> Amino acid
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&lt;213&gt; Homo sapiens

&lt;400&gt; 1217

Arg Arg Pro Thr Arg Pro Ile Leu Thr Asp Glu Leu Phe Lys Arg Thr  
 1 5 10 15  
 Ile Gln Leu Pro His Leu Lys Thr Leu Ile Leu Asn Gly Asn Lys Leu  
 20 25 30  
 Glu Thr Leu Ser Leu Val Ser Cys Phe Ala Asn Asn Thr Pro Leu Glu  
 35 40 45  
 His Leu Asp Leu Ser Gln Asn Leu Leu Gln His Lys Asn Asp Glu Asn  
 50 55 60  
 Cys Ser Trp Pro Glu Thr Val Val Asn Met Asn Leu Ser Tyr Asn Lys  
 65 70 75 80  
 Leu Ser Asp Ser Val Phe Arg Cys Leu Pro Lys Ser Ile Gln Ile Leu  
 85 90 95  
 Asp Leu Asn Asn Asn Gln Ile Gln Thr Val Pro Lys Glu Thr Ile His  
 100 105 110  
 Leu Met Ala Leu Arg Glu Leu Asn Ile Ala Phe Asn Phe Leu Thr Asp  
 115 120 125  
 Leu Pro Gly Cys Ser His Phe Ser Arg Leu Ser Val Leu Asn Ile Glu  
 130 135 140  
 Met Asn Phe Ile Leu Ser Pro Ser Leu Asp Phe Val Gln Ser Cys Gln  
 145 150 155 160  
 Glu Val Lys Thr Leu Asn Ala Gly Arg Asn Pro Phe Arg Cys Thr Cys  
 165 170 175  
 Glu Leu Lys Asn Phe Ile Gln Leu Glu Thr Tyr Ser Glu Val Met Met  
 180 185 190  
 Val Gly Trp Ser Asp Ser Tyr Thr Cys Glu Tyr Pro Leu Asn Leu Arg  
 195 200 205  
 Gly Thr Arg Leu Lys Asp Val His Leu His Glu Leu Ser Cys Asn Thr  
 210 215 220  
 Ala Leu Leu Ile Val Thr Ile Val Val Ile Met Leu Val Leu Gly Leu  
 225 230 235 240  
 Ala Val Ala Phe Cys Cys Leu His Phe Asp Leu Pro Trp Tyr Leu Arg  
 245 250 255  
 Met Leu Gly Gln Cys Thr Gln Thr Trp His Arg Val Arg Lys Thr Thr  
 260 265 270  
 Gln Glu Gln Leu Lys Arg Asn Val Arg Phe His Ala Phe Ile Ser Tyr  
 275 280 285  
 Ser Glu His Asp Ser Leu Trp Val Lys Asn Glu Leu Ile Pro Asn Leu  
 290 295 300  
 Glu Lys Glu Asp Gly Ser Ile Leu Ile Cys Leu Tyr Glu Ser Tyr Phe  
 305 310 315 320  
 Asp Pro Gly Lys Ser Ile Ser Glu Asn Ile Val Ser Phe Ile Glu Lys  
 325 330 335  
 Ser Tyr Lys Ser Ile Phe Val Leu Ser Pro Asn Phe Val Gln Asn Glu  
 340 345 350  
 Trp Cys His Tyr Glu Phe Tyr Phe Ala His His Asn Leu Phe His Glu  
 355 360 365  
 Asn Ser Asp His Ile Ile Leu Ile Leu Leu Glu Pro Ile Pro Phe Tyr  
 370 375 380  
 Cys Ile Pro Thr Arg Tyr His Lys Leu Lys Ala Leu Leu Glu Lys Lys  
 385 390 395 400  
 Ala Tyr Leu Glu Trp Pro Lys Asp Arg Arg Lys Cys Gly Leu Phe Trp  
 405 410 415  
 Ala Asn Leu Arg Ala Ala Ile Asn Val Asn Val Leu Ala Thr Arg Glu  
 420 425 430  
 Met Tyr Glu Leu Gln Thr Phe Thr Glu Leu Asn Glu Glu Ser Arg Gly  
 435 440 445  
 Ser Thr Ile Ser Leu Met Arg Thr Asp Cys Leu

450

455

459

<210> 1218  
 <211> 366  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1218  
 Pro Thr Arg Pro Pro Thr Arg Pro Leu Leu Thr Pro  
 1 5 10 15  
 Ser Trp Thr Ser Thr Gly Arg Met Trp Ser His Leu Asn Arg Leu Leu  
 20 25 30  
 Phe Trp Ser Ile Phe Ser Ser Val Thr Cys Arg Lys Ala Val Leu Asp  
 35 40 45  
 Cys Glu Ala Met Lys Thr Asn Glu Phe Pro Ser Pro Cys Leu Asp Ser  
 50 55 60  
 Lys Thr Lys Val Val Met Lys Gly Gln Asn Val Ser Met Phe Cys Ser  
 65 70 75 80  
 His Lys Asn Lys Ser Leu Gln Ile Thr Tyr Ser Leu Phe Arg Arg Lys  
 85 90 95  
 Thr His Leu Gly Thr Gln Asp Gly Lys Gly Glu Pro Ala Ile Phe Asn  
 100 105 110  
 Leu Ser Ile Thr Glu Ala His Glu Ser Gly Pro Tyr Lys Cys Lys Ala  
 115 120 125  
 Gln Val Thr Ser Cys Ser Lys Tyr Ser Arg Asp Phe Ser Phe Thr Ile  
 130 135 140  
 Val Asp Pro Val Thr Ser Pro Val Leu Asn Ile Met Val Ile Gln Thr  
 145 150 155 160  
 Glu Thr Asp Arg His Ile Thr Leu His Cys Leu Ser Val Asn Gly Ser  
 165 170 175  
 Leu Pro Ile Asn Tyr Thr Phe Phe Glu Asn His Val Ala Ile Ser Pro  
 180 185 190  
 Ala Ile Ser Lys Tyr Asp Arg Glu Pro Ala Glu Phe Asn Leu Thr Lys  
 195 200 205  
 Lys Asn Pro Gly Glu Glu Glu Tyr Arg Cys Glu Ala Lys Asn Arg  
 210 215 220  
 Leu Pro Asn Tyr Ala Thr Tyr Ser His Pro Val Thr Met Pro Ser Thr  
 225 230 235 240  
 Gly Gly Asp Ser Cys Pro Phe Cys Leu Lys Leu Leu Leu Pro Gly Leu  
 245 250 255  
 Leu Leu Leu Leu Val Val Ile Ile Leu Ile Leu Ala Phe Trp Val Leu  
 260 265 270  
 Pro Lys Tyr Lys Thr Arg Lys Ala Met Arg Asn Asn Val Pro Arg Asp  
 275 280 285  
 Arg Gly Asp Thr Ala Met Glu Val Gly Ile Tyr Ala Asn Ile Leu Glu  
 290 295 300  
 Lys Gln Ala Lys Glu Glu Ser Val Pro Glu Val Gly Ser Arg Pro Cys  
 305 310 315 320  
 Val Ser Thr Ala Gln Asp Glu Ala Lys His Ser Gln Glu Leu Gln Tyr  
 325 330 335  
 Ala Thr Pro Val Phe Gln Glu Val Ala Pro Arg Glu Gln Glu Ala Cys  
 340 345 350  
 Asp Ser Tyr Lys Ser Gly Tyr Val Tyr Ser Glu Leu Asn Phe  
 355 360 365 366

<210> 1219  
 <211> 97  
 <212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1219  
 Phe Phe Phe Phe Glu Glu Arg Arg Thr Gly Ser His Ser Val Gly His  
 1 5 10 15  
 Pro Arg Met Glu Tyr Ser Gly Val Ser Met Ala His Cys Ser Leu Asn  
 20 25 30  
 Leu Leu Gly Ser Ser Asn Ser Pro Ser Ala Ser Gln Asp Ala Arg  
 35 40 45  
 Thr Thr Gly Ala Cys Gln His Ala Gln Leu Ile Gly Phe Phe Phe  
 50 55 60  
 Val Glu Thr Ala Ser Pro Gln Val Thr His Ala Gly Leu Lys His Leu  
 65 70 75 80  
 Val Ser Arg Asn Pro Ser Ala Val Thr Ser Gln Ser Ala Arg Ile Lys  
 85 90 95  
 Thr  
 97

&lt;210&gt; 1220

&lt;211&gt; 242

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1220  
 Asn Arg Glu Gly Ala Arg Lys Ile Gln Asn Lys Trp Leu Arg Pro Ser  
 1 5 10 15  
 Pro Arg Ser His Arg Thr Pro Glu Ser Val Ser Pro Glu Arg Tyr Ser  
 20 25 30  
 Tyr Gly Thr Ser Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg  
 35 40 45  
 Arg Arg Gln Ser Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu  
 50 55 60  
 Thr Gly Ser Pro Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro  
 65 70 75 80  
 Ser Gly Gly Ala Lys Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln  
 85 90 95  
 Gln Gln Ser Glu Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys  
 100 105 110  
 Asp Ile Arg Leu Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala  
 115 120 125  
 Leu Glu Gln Gly Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln  
 130 135 140  
 Leu Asp Val Phe Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu  
 145 150 155 160  
 Gly Ser Val Val Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp  
 165 170 175  
 Ala Phe Trp Gly Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg  
 180 185 190  
 Gly Val Phe Leu Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala  
 195 200 205  
 Val Arg Leu Leu Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg  
 210 215 220  
 Arg Arg Leu Leu Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu  
 225 230 235 240  
 Ala Ser

242

<210> 1221  
 <211> 440  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1221  
 Ala Pro Asn Thr Ala Glu Leu Arg Ile Cys Arg Val Asn Lys Asn Cys  
 1 5 10 15  
 Gly Ser Val Arg Gly Gly Asp Glu Ile Phe Leu Leu Cys Asp Lys Val  
 20 25 30  
 Gln Lys Asp Asp Ile Glu Val Arg Phe Val Leu Asn Asp Trp Glu Ala  
 35 40 45  
 Lys Gly Ile Phe Ser Gln Ala Asp Val His Arg Gln Val Ala Ile Val  
 50 55 60  
 Phe Lys Thr Pro Pro Tyr Cys Lys Ala Ile Thr Glu Pro Val Thr Val  
 65 70 75 80  
 Lys Met Gln Leu Arg Arg Pro Ser Asp Gln Glu Val Ser Glu Ser Met  
 85 90 95  
 Asp Phe Arg Tyr Leu Pro Asp Glu Lys Asp Thr Tyr Gly Asn Lys Ala  
 100 105 110  
 Lys Lys Gln Lys Thr Thr Leu Leu Phe Gln Lys Leu Cys Gln Asp His  
 115 120 125  
 Val Glu Thr Gly Phe Arg His Val Asp Gln Asp Gly Leu Glu Leu Leu  
 130 135 140  
 Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr  
 145 150 155 160  
 Val Asn Phe Pro Glu Arg Pro Arg Pro Gly Leu Leu Gly Ser Ile Gly  
 165 170 175  
 Glu Gly Arg Tyr Phe Lys Lys Glu Pro Asn Leu Phe Ser His Asp Ala  
 180 185 190  
 Val Val Arg Glu Met Pro Thr Gly Val Ser Ser Gln Ala Glu Ser Tyr  
 195 200 205  
 Tyr Pro Ser Pro Gly Pro Ile Ser Ser Gly Leu Ser His His Ala Ser  
 210 215 220  
 Met Ala Pro Leu Pro Ser Ser Ser Trp Ser Ser Val Ala His Pro Thr  
 225 230 235 240  
 Pro Arg Ser Gly Asn Thr Asn Pro Leu Ser Ser Phe Ser Thr Arg Thr  
 245 250 255  
 Leu Pro Ser Asn Ser Gln Gly Ile Pro Pro Phe Leu Arg Ile Pro Val  
 260 265 270  
 Gly Asn Asp Leu Asn Ala Ser Asn Ala Cys Ile Tyr Asn Asn Ala Asp  
 275 280 285  
 Asp Ile Val Gly Met Glu Ala Ser Ser Met Pro Ser Ala Asp Leu Tyr  
 290 295 300  
 Gly Ile Ser Asp Pro Asn Met Leu Ser Asn Cys Ser Val Asn Met Met  
 305 310 315 320  
 Thr Thr Ser Ser Asp Ser Met Gly Glu Thr Asp Asn Pro Arg Leu Leu  
 325 330 335  
 Ser Met Asn Leu Glu Asn Pro Ser Cys Asn Ser Val Leu Asp Pro Arg  
 340 345 350  
 Asp Leu Arg Gln Leu His Gln Met Ser Ser Ser Ser Met Ser Ala Gly  
 355 360 365  
 Ala Asn Ser Asn Thr Thr Val Phe Val Ser Gln Ser Asp Ala Phe Glu  
 370 375 380  
 Gly Ser Asp Phe Ser Cys Ala Asp Asn Ser Met Ile Asn Glu Ser Gly  
 385 390 395 400  
 Pro Ser Asn Ser Thr Asn Pro Asn Ser His Gly Phe Val Gln Asp Ser





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      370                      375                      380
His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu Glu Asp
385                      390                      395                      400
Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln Lys Asp Pro
                      405                      410                      415
Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg Gly Lys Asn Arg
                      420                      425                      430
Arg Gln Ser Ile Phe
                      435                      437

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<210> 1223
<211> 150
<212>Amino acid
<213> Homo sapiens

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<400> 1223
Cys Thr Pro His Gly Ser Ser Ser Ser Trp Lys Ile Pro Leu Trp Pro
1                      5                      10                      15
Arg His Met Ser Pro Leu His Ser Cys Leu Pro Val Gly Thr Ser Thr
                      20                      25                      30
Ser Ser Gly Pro Leu Ala Val Pro Arg Asp Cys Phe His Leu Cys Cys
                      35                      40                      45
Leu Trp Gly Gln Leu Leu Leu Ile Ser Cys Pro Leu Ala Cys Gly Gln
                      50                      55                      60
Gly Cys Arg Val Ala Gly Gly Gln Gln His Val Pro Gly Gln Ala Leu
65                      70                      75                      80
Gly Thr Leu Ser Pro Leu Val Ser Leu Leu Thr Trp Ala Gly Pro Ser
                      85                      90                      95
Leu Asp Trp Pro His Pro Gly Ser Leu Val Thr Pro Arg Cys Pro Ile
                      100                      105                      110
Leu Pro Ala Val Pro Val Leu Val Lys Gly Leu Gly Gly Trp Pro Pro
                      115                      120                      125
Thr Arg Pro Ser Arg Ala Ala Pro Val Ser Gly Pro Trp Asp Gln Leu
130                      135                      140
Pro Tyr Phe Pro Gly Leu
145                      150

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<210> 1224
<211> 276
<212>Amino acid
<213> Homo sapiens

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```

<400> 1224
Leu Ile Ser Pro Val Trp Gly Asn Ile Gln Arg Ser Arg Ser Val Pro
1                      5                      10                      15
Leu Phe Pro Ser Gly Leu Val Leu Gly Gly Ile Trp Ala Arg Gly Pro
                      20                      25                      30
Leu Leu Ala Leu Leu Ala Ser Phe Asn Ile Ile Ser Val Leu Asn Ala
                      35                      40                      45
Glu Cys Tyr Leu Lys Gln Ile Leu His Pro Thr Ser His Phe Thr Val
                      50                      55                      60
Ser Glu Thr Pro Pro Leu Ser Gly Asn Asp Thr Asp Ser Leu Ser Cys
65                      70                      75                      80
Asp Ser Gly Ser Ser Ala Thr Ser Thr Pro Cys Val Ser Arg Leu Val

```



210	215	220
Gly Thr Lys Gly Leu Lys Lys Val Val His Glu Thr Pro Ala Ala Ser		
225	230	235
Lys Thr Val Phe Phe Phe Ser Ser Pro Gly Asn Asn Asn Gly Thr		240
	245	250
Ser Ile Glu Asp Gly Gln Ile Pro Glu Ile Ile Phe Tyr Thr		255
260	265	270

<210> 1226  
 <211> 273  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1226

Ser Val Trp Trp Asn Ser Glu Val Lys Asp Trp Met Gln Lys Lys Arg	
1	5
Arg Gly Leu Arg Asn Ser Arg Ala Thr Ala Gly Asp Ile Ala His Tyr	10
	20
Tyr Arg Asp Tyr Val Val Lys Lys Gly Leu Gly His Asn Phe Val Ser	25
	35
Gly Ala Val Val Thr Ala Val Glu Trp Gly Thr Pro Asp Pro Ser Ser	40
	50
Cys Gly Ala Gln Asp Ser Ser Pro Leu Phe Gln Val Ser Gly Phe Leu	55
65	70
Thr Arg Asn Gln Ala Gln Gln Pro Phe Ser Leu Trp Ala Arg Asn Val	75
	85
Val Leu Ala Thr Gly Thr Phe Asp Ser Pro Ala Arg Leu Gly Ile Pro	90
	100
Gly Glu Ala Leu Pro Phe Ile His His Glu Leu Ser Ala Leu Glu Ala	105
	115
Ala Thr Arg Val Gly Ala Val Thr Pro Ala Ser Asp Pro Val Leu Ile	120
	130
Ile Gly Ala Gly Leu Ser Ala Ala Asp Ala Val Leu Tyr Ala Arg His	135
145	150
Tyr Asn Ile Pro Val Ile His Ala Phe Arg Arg Ala Val Asp Asp Pro	155
	165
Gly Leu Val Phe Asn Gln Leu Pro Lys Met Leu Tyr Pro Glu Tyr His	170
	180
Lys Val His Gln Met Met Arg Glu Gln Ser Ile Leu Ser Pro Ser Pro	185
	195
Tyr Glu Gly Tyr Arg Ser Leu Pro Arg His Gln Leu Leu Cys Phe Lys	200
210	215
Glu Asp Cys Gln Ala Val Phe Gln Asp Leu Glu Gly Val Glu Lys Val	220
225	230
Phe Gly Val Ser Leu Val Leu Val Leu Ile Gly Ser His Pro Asp Leu	235
	245
Ser Phe Leu Pro Gly Ala Gly Leu Thr Leu Gln Trp Ile Leu Thr Ser	250
260	265
	270

Arg  
 273

<210> 1227  
 <211> 86  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1227

```

Lys Leu Arg Pro Phe Ile Phe Ser Asn Gln Ser Leu Trp Leu His Ser
1           5           10
Tyr Glu Gly Ala Glu Leu Glu Lys Thr Phe Ile Lys Gly Ser Trp Ala
20
Thr Phe Trp Val Lys Val Ala Ser Cys Trp Ala Cys Val Leu Leu Tyr
35
Leu Gly Leu Leu Leu Ala Pro Leu Cys Trp Pro Pro Thr Gln Lys Pro
50
Gln Pro Leu Ile Leu Arg Arg Arg Arg His Arg Ile Ile Ser Pro Asp
65
Asn Lys Tyr Pro Pro Val
85 86

```

&lt;210&gt; 1228

&lt;211&gt; 249

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1228

```

Gln Leu Ile His Leu Ser His Gly Tyr Gln Ile His Trp Thr Asp Tyr
1           5           10
Tyr Asn Val Gly Thr Gly Arg Pro Glu Phe Gly Thr Arg Ala Ala His
20
Lys Ser Leu Ala Gly Ala Glu Leu Lys Thr Leu Lys Asp Phe Val Thr
35
Val Leu Ala Lys Leu Phe Pro Gly Arg Pro Pro Val Lys Lys Leu Leu
50
Glu Met Leu Gln Glu Trp Leu Ala Ser Leu Pro Leu Asp Arg Ile Pro
65
Tyr Asn Ala Val Leu Asp Leu Val Asn Asn Lys Met Arg Ile Ser Gly
85
Ile Phe Leu Thr Asn His Ile Lys Trp Val Gly Cys Gln Gly Ser Arg
100
Ser Glu Leu Arg Gly Tyr Pro Cys Ser Leu Trp Lys Leu Phe His Thr
115
Leu Thr Val Glu Ala Ser Thr His Pro Asp Ala Leu Val Gly Thr Gly
130
Phe Glu Asp Asp Pro Gln Ala Val Leu Gln Thr Met Arg Arg Tyr Val
145
His Thr Phe Phe Gly Cys Lys Glu Cys Gly Glu His Phe Glu Glu Met
165
Ala Lys Glu Ser Met Asp Ser Val Lys Thr Pro Asp Gln Ala Ile Leu
180
Trp Leu Trp Lys Lys His Asn Met Val Asn Gly Arg Leu Ala Gly Glu
195
Lys Pro Leu Gly Met Gly Gly Ser Ala Arg Ala Glu Gly Gly Pro Gly
210
Pro Gly Thr Ala Arg Thr Ala Arg Leu Pro Trp Gly Leu Ser Leu Ser
225
Phe Ala Ala Ser Cys His Pro Leu Cys
245 249

```

&lt;210&gt; 1229

&lt;211&gt; 800

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1229

His Gly Gly Ala Thr Phe Ile Asn Ala Phe Val Thr Thr Pro Met Cys  
 1 5 10 15  
 Cys Pro Ser Arg Ser Ser Met Leu Thr Gly Lys Tyr Val His Asn His  
 20 25 30  
 Asn Val Tyr Thr Asn Asn Glu Asn Cys Ser Ser Pro Ser Trp Gln Ala  
 35 40 45  
 Met His Glu Pro Arg Thr Phe Ala Val Tyr Leu Asn Asn Thr Gly Tyr  
 50 55 60  
 Arg Thr Ala Phe Phe Gly Lys Tyr Leu Asn Glu Tyr Asn Gly Ser Tyr  
 65 70 75 80  
 Ile Pro Pro Gly Trp Arg Glu Trp Leu Gly Leu Ile Lys Asn Ser Arg  
 85 90 95  
 Phe Tyr Asn Tyr Thr Val Cys Arg Asn Gly Ile Lys Glu Lys His Gly  
 100 105 110  
 Phe Asp Tyr Ala Lys Asp Tyr Phe Thr Asp Leu Ile Thr Asn Glu Ser  
 115 120 125  
 Ile Asn Tyr Phe Lys Met Ser Lys Arg Met Tyr Pro His Arg Pro Val  
 130 135 140  
 Met Met Val Ile Ser His Ala Glu Pro His Gly Pro Glu Asp Ser Ala  
 145 150 155 160  
 Pro Gln Phe Ser Lys Leu Tyr Pro Asn Ala Ser Gln His Ile Thr Pro  
 165 170 175  
 Ser Tyr Asn Tyr Ala Pro Asn Met Asp Lys His Trp Ile Met Gln Tyr  
 180 185 190  
 Thr Gly Pro Met Leu Pro Ile His Met Glu Phe Thr Asn Ile Leu Gln  
 195 200 205  
 Arg Lys Arg Leu Gln Thr Leu Met Ser Val Asp Asp Ser Val Glu Arg  
 210 215 220  
 Leu Tyr Asn Met Leu Val Glu Thr Gly Glu Leu Glu Asn Thr Tyr Ile  
 225 230 235 240  
 Ile Tyr Thr Ala Asp His Gly Tyr His Ile Gly Gln Phe Gly Leu Val  
 245 250 255  
 Lys Gly Lys Ser Met Pro Tyr Asp Phe Asp Ile Arg Val Pro Phe Phe  
 260 265 270  
 Ile Arg Gly Pro Ser Val Glu Pro Gly Ser Ile Val Pro Gln Ile Val  
 275 280 285  
 Leu Asn Ile Asp Leu Ala Pro Thr Ile Leu Asp Ile Ala Gly Leu Asp  
 290 295 300  
 Thr Pro Pro Asp Val Asp Gly Lys Ser Val Leu Lys Leu Leu Asp Pro  
 305 310 315 320  
 Glu Lys Pro Gly Asn Arg Phe Arg Thr Asn Lys Lys Ala Lys Ile Trp  
 325 330 335  
 Arg Asp Thr Phe Leu Val Glu Arg Gly Lys Phe Leu Arg Lys Lys Glu  
 340 345 350  
 Glu Ser Ser Lys Asn Ile Gln Gln Ser Asn His Leu Pro Lys Tyr Glu  
 355 360 365  
 Arg Val Lys Glu Leu Cys Gln Gln Ala Arg Tyr Gln Thr Ala Cys Glu  
 370 375 380  
 Gln Pro Gly Gln Lys Trp Gln Cys Ile Glu Asp Thr Ser Gly Lys Leu  
 385 390 395 400  
 Arg Ile His Lys Cys Lys Gly Pro Ser Asp Leu Leu Thr Val Arg Gln  
 405 410 415  
 Ser Thr Arg Asn Leu Tyr Ala Arg Gly Phe His Asp Lys Asp Lys Glu  
 420 425 430  
 Cys Ser Cys Arg Glu Ser Gly Tyr Arg Ala Ser Arg Ser Gln Arg Lys  
 435 440 445  
 Ser Gln Arg Gln Phe Leu Arg Asn Gln Gly Thr Pro Lys Tyr Lys Pro

450	455	460
Arg Phe Val His Thr Arg Gln Thr Arg Ser Leu Ser Val Glu Phe Glu		
455	470	475
Gly Glu Ile Tyr Asp Ile Asn Leu Glu Glu Glu Glu Glu Leu Gln Val		480
	485	490
Leu Gln Pro Arg Asn Ile Ala Lys Arg His Asp Glu Gly His Lys Gly		495
	500	505
Pro Arg Asp Leu Gln Ala Ser Ser Gly Gly Asn Arg Gly Arg Met Leu		510
	515	520
Ala Asp Ser Ser Asn Ala Val Gly Pro Pro Thr Thr Val Arg Val Thr		525
	530	535
His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu Arg Glu		540
	545	550
Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr Ile Asp		555
	565	570
Glu Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg Glu Val		575
	580	585
Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys Ser Lys		590
	595	600
Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu Lys Leu		605
	610	615
Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val Asp Ser		620
	625	630
Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys Glu Arg		635
	645	650
Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro Gly		655
	660	665
Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro Phe		670
	675	680
Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn Thr		685
	690	695
Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe Cys		700
	705	710
Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp Pro		715
	725	730
Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu Asn		735
	740	745
Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly Tyr Lys		750
	755	760
Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys Asp Gly		765
	770	775
Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Asp Gly Trp Glu Gly		780
	785	790
		795
		800

&lt;210&gt; 1230

&lt;211&gt; 698

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1230

His	Leu	Leu	Ile	Ala	Gln	Glu	Leu	Ala	Asp	Arg	Val	Gly	Glu	Gly	Arg
1				5					10				15		
Ala	Cys	Trp	Ser	Leu	Gly	Asn	Ala	Tyr	Val	Ser	Met	Gly	Arg	Pro	Ala
			20					25					30		
Gln	Ala	Leu	Thr	Phe	Ala	Lys	Lys	His	Leu	Gln	Ile	Ser	Gln	Glu	Ile
		35					40					45			
Gly	Asp	Arg	His	Gly	Glu	Leu	Thr	Ala	Arg	Met	Asn	Val	Ala	Gln	Leu

50	55	60
Gln Leu Val Leu Gly Arg Leu Thr Ser Pro Ala Ala Ser Glu Lys Pro		
65	70	75
Asp Leu Ala Gly Tyr Glu Ala Gln Gly Ala Arg Pro Lys Arg Thr Gln		80
	85	90
Arg Leu Ser Ala Glu Thr Trp Asp Leu Leu Arg Leu Pro Leu Glu Arg		95
	100	105
Glu Gln Asn Gly Asp Ser His His Ser Gly Asp Trp Arg Gly Pro Ser		110
	115	120
Arg Asp Ser Leu Pro Leu Pro Val Arg Ser Arg Lys Tyr Gln Glu Gly		125
	130	135
Pro Asp Ala Glu Arg Arg Pro Arg Glu Gly Ser His Ser Pro Leu Asp		140
	145	150
Ser Ala Asp Val Arg Val His Val Pro Arg Thr Ser Ile Pro Arg Ala		155
	165	170
Pro Ser Ser Asp Glu Glu Cys Phe Phe Asp Leu Leu Thr Lys Phe Gln		175
	180	185
Ser Ser Arg Met Asp Asp Gln Arg Cys Pro Leu Asp Asp Gly Gln Ala		190
	195	200
Gly Ala Ala Glu Ala Thr Ala Ala Pro Thr Leu Glu Asp Arg Ile Ala		205
	210	215
Gln Pro Ser Met Thr Ala Ser Pro Gln Thr Glu Glu Phe Phe Asp Leu		220
	225	230
Ile Ala Ser Ser Gln Ser Arg Arg Leu Asp Asp Gln Arg Ala Ser Val		235
	245	250
Gly Ser Leu Pro Gly Leu Arg Ile Thr His Ser Asn Ala Gly His Leu		255
	260	265
Arg Gly His Gly Glu Pro Gln Glu Pro Gly Asp Asp Phe Phe Asn Met		270
	275	280
Leu Ile Lys Tyr Gln Ser Ser Arg Ile Asp Asp Gln Arg Cys Pro Pro		285
	290	295
Pro Asp Val Leu Pro Arg Gly Pro Thr Met Pro Asp Glu Asp Phe Phe		300
	305	310
Ser Leu Ile Gln Arg Val Gln Ala Lys Arg Met Asp Glu Gln Arg Val		315
	325	330
Asp Leu Ala Gly Gly Pro Gly Ala Gly Gly Arg Arg Pro Ala Arg Ala		335
	340	345
Pro Ala Ala Val Pro Ala Trp Cys Glu Leu Arg Pro Cys Ala His Arg		350
	355	360
Gln Ala His Pro Ala Pro Thr Pro Gly Arg Arg Ser His Ser His Ser		365
	370	375
His Val Leu Pro Arg Pro Leu Pro Arg Thr Gly Thr Gly His Ala Ala		380
	385	390
Pro Arg Pro Pro Arg Pro Arg Ala Thr Gly Ser Gly Gln Ala Ala Arg		395
	405	410
Gly Gly Arg Ala Cys Phe His Pro Gly Leu Ala Pro Met Ala Leu Ser		415
	420	425
Phe Leu Pro Ser Ala Pro Ala Ala Gly Arg Thr Gly Pro Ser Ala Cys		430
	435	440
Arg Pro Arg Pro Gly Ala Val Arg Leu Pro His Pro Leu Pro Gln Ala		445
	450	455
Leu Pro Val Leu Pro Cys Pro Ala Lys Cys Glu Thr Leu Leu Ser Pro		460
	465	470
Ser Pro Ser Pro Lys Val Ser Leu Ser Arg Leu Leu Gly Pro Pro Arg		475
	485	490
Thr Gly Pro Cys Ser Val Pro Pro Glu Leu Val Leu Gly Trp Pro Cys		495
	500	505
Asp Arg His Ala Pro Pro Leu Gln Leu Arg Pro Gly Ala Gly Leu Pro		510
	515	520
Pro Ser Leu Ser Pro His Ser Pro Ala Arg Gly Gln Gln Pro Gln Lys		525
	530	535
Ala Pro Gln Thr Thr His Gly Arg Pro Gly Cys Ser Gly Ser Pro Glu		540
	545	550
Val Pro Pro Ala Glu Ser Gln Gly Pro Ala Gly Ala Ser Thr Gly Ala		555
		560

```

          565                      570                      575
Gly Pro Ile Ser Lys Ala Glu Gly Met Ala Gly His Glu Leu Arg His
580                      585                      590
Ser Lys Thr Pro Ser Gln Glu Lys Gly Gln Gly Leu Val Leu Gly Met
595                      600                      605
Leu Thr Gly Ser Lys Ser Ser Ala Gln Ser Gly Trp Glu Val Ala Pro
610                      615                      620
Gly Ser Val Thr Leu Thr Gln Val Gly Gly Trp Ser Val Glu Ala Gly
625                      630                      635                      640
Glu Ala Ser Leu Ser Ser Thr Leu Gln Thr Pro His Met Arg Thr Pro
645                      650                      655
Leu Leu Pro Pro Ala Gly Gly Asp Asp Ile Thr Ala Leu Ser Met Gly
660                      665                      670
Arg Gly Leu Thr Gly His Gln Val Arg Asp Pro Arg Thr Gly Arg Thr
675                      680                      685
Cys Trp Ser Leu Arg Trp Ala Pro Gly Ala
690                      695                      698

```

<210> 1231  
 <211> 131  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1231
Asn Ser Ala Ala Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro
1      5      10      15
Val Val Tyr Leu Leu Ala Ser Ser Phe Leu Gly Leu His Pro
20      25      30
Ile Ser Gly His Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His
35      40      45
Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val
50      55      60
Gly Tyr His Val Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn
65      70      75      80
Leu Pro Leu Val Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro
85      90      95
Gln His His Ser Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp
100     105     110
Ser Leu Gly Pro Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys
115     120     125
Asp Gly Leu
130 131

```

<210> 1232  
 <211> 71  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1232
Gln Glu Ser Gly Phe Ser Cys Lys Gly Pro Gly Gln Asn Val Ala Val
1      5      10      15
Thr Arg Ala His Pro Asp Ser Gln Gly Arg Arg Arg Arg Pro Glu Arg
20      25      30
Gly Ala Arg Gly Gly Gln Val Phe Tyr Asn Ser Glu Tyr Gly Glu Leu

```



```

          35              40              45
Ser Glu Pro Ser Glu Glu Asp His Cys Ser Pro Ser Ala Arg Val Thr
   50              55              60
Phe Phe Thr Asp Asn Ser Tyr
   65              70  71

```

```

<210> 1233
<211> 146
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1233
Val Ile Val His Ala Arg Pro Ile Arg Thr Arg Ala Ser Lys Tyr Tyr
  1              5              10              15
Ile Pro Glu Ala Val Tyr Gly Leu Pro Ala Tyr Pro Ala Tyr Ala Gly
              20              25              30
Gly Gly Gly Phe Val Leu Ser Gly Ala Thr Leu His Arg Leu Ala Gly
   35              40              45
Ala Cys Ala Gln Val Glu Leu Phe Pro Ile Asp Asp Val Phe Leu Gly
   50              55              60
Met Cys Leu Gln Arg Leu Arg Leu Thr Pro Glu Pro His Pro Ala Phe
   65              70              75              80
Arg Thr Phe Gly Ile Pro Gln Pro Ser Ala Ala Pro His Leu Ser Thr
              85              90              95
Phe Asp Pro Cys Phe Tyr Arg Glu Leu Val Val Val His Gly Leu Ser
              100              105              110
Ala Ala Asp Ile Trp Leu Met Trp Arg Leu Leu His Gly Pro His Gly
              115              120              125
Pro Ala Cys Ala His Pro Gln Pro Val Ala Ala Gly Pro Phe Gln Trp
              130              135              140
Asp Ser
145 146

```

```

<210> 1234
<211> 299
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1234
Met Ala Ser Ala Ala Cys Ser Met Asp Pro Ile Asp Ser Phe Glu Leu
  1              5              10              15
Leu Asp Leu Leu Phe Asp Arg Gln Asp Gly Ile Leu Arg His Val Glu
              20              25              30
Leu Gly Glu Gly Trp Gly His Val Lys Asp Gln Val Leu Pro Asn Pro
   35              40              45
Asp Ser Asp Asp Phe Leu Ser Ser Ile Leu Gly Ser Gly Asp Ser Leu
   50              55              60
Pro Ser Ser Pro Leu Trp Ser Pro Glu Gly Ser Asp Ser Gly Ile Ser
   65              70              75              80
Glu Asp Leu Pro Ser Asp Pro Gln Asp Thr Pro Pro Arg Ser Gly Pro
              85              90              95
Ala Thr Ser Pro Ala Gly Cys His Pro Ala Gln Pro Gly Lys Gly Pro
              100              105              110
Cys Leu Ser Tyr His Pro Gly Asn Ser Cys Ser Thr Thr Thr Pro Gly

```

115 120 125  
 Pro Val Ile Gln Gln Gln His His Leu Gly Ala Ser Tyr Leu Leu Arg  
 130 135 140  
 Pro Gly Ala Gly His Cys Gln Glu Leu Val Leu Thr Glu Asp Glu Lys  
 145 150 155 160  
 Lys Leu Leu Ala Lys Glu Gly Ile Thr Leu Pro Thr Gln Leu Pro Leu  
 165 170 175  
 Thr Lys Tyr Glu Glu Arg Val Leu Lys Lys Ile Arg Arg Lys Ile Arg  
 180 185 190  
 Asn Lys Gln Ser Ala Gln Glu Ser Arg Lys Lys Lys Lys Glu Tyr Ile  
 195 200 205  
 Asp Gly Leu Glu Thr Arg Ser Cys Cys Pro Leu Pro Ser Ser Ser  
 210 215 220  
 Ser Pro Pro Ser Ala Leu Leu Ala Pro Thr Lys Pro Arg Ala Leu Gly  
 225 230 235 240  
 Thr Leu Arg Leu Tyr Glu Cys Ser Pro Glu Leu Cys Thr Thr Met Leu  
 245 250 255  
 Pro Pro Ala Trp Leu Leu Met Leu Cys Gln Ala Pro Arg Pro Gln Asp  
 260 265 270  
 Pro Asp Pro Arg Leu Thr Gln Pro Glu Lys Ser Leu Gln Glu Ala Pro  
 275 280 285  
 Gly Gln Thr Gly Ala Ser Arg Thr Pro Arg Thr  
 290 295 299

<210> 1235  
 <211> 1098  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1235  
 Ala Arg Gly Arg Arg Ser Arg Pro Val Trp Ala Ala Ser Trp Gly Gly  
 1 5 10 15  
 Arg Gly Arg Pro Ala Ala Arg Arg Pro Arg Gly Leu Ala Ala Thr  
 20 25 30  
 Met Gly Phe Glu Leu Asp Arg Phe Asp Gly Asp Val Asp Pro Asp Leu  
 35 40 45  
 Lys Cys Ala Leu Cys His Lys Val Leu Glu Asp Pro Leu Thr Thr Pro  
 50 55 60  
 Cys Gly His Val Phe Cys Ala Gly Cys Val Leu Pro Trp Val Val Gln  
 65 70 75 80  
 Glu Gly Ser Cys Pro Ala Arg Cys Arg Gly Arg Leu Ser Ala Lys Glu  
 85 90 95  
 Leu Asn His Val Leu Pro Leu Lys Arg Leu Ile Leu Lys Leu Asp Ile  
 100 105 110  
 Lys Cys Ala Tyr Ala Thr Arg Gly Cys Gly Arg Val Val Lys Leu Gln  
 115 120 125  
 Gln Leu Pro Glu His Leu Glu Arg Cys Asp Phe Ala Pro Ala Arg Cys  
 130 135 140  
 Arg His Ala Gly Cys Gly Gln Val Leu Leu Arg Arg Asp Val Glu Ala  
 145 150 155 160  
 His Met Arg Asp Ala Cys Asp Ala Arg Pro Val Gly Arg Cys Gln Glu  
 165 170 175  
 Gly Cys Gly Leu Pro Leu Thr His Gly Glu Gln Arg Ala Gly Gly His  
 180 185 190  
 Cys Cys Ala Arg Ala Leu Arg Ala His Asn Gly Ala Leu Gln Ala Arg  
 195 200 205  
 Leu Gly Ala Leu His Lys Ala Leu Lys Lys Glu Ala Leu Arg Ala Gly  
 210 215 220  
 Lys Arg Glu Lys Ser Leu Val Ala Gln Leu Ala Ala Ala Gln Leu Glu

225 230 235 240  
 Leu Gln Met Thr Ala Leu Arg Tyr Gln Lys Lys Phe Thr Glu Tyr Ser  
 245 255  
 Ala Arg Leu Asp Ser Leu Ser Arg Cys Val Ala Ala Pro Pro Gly Gly  
 260 265 270  
 Lys Gly Glu Glu Thr Lys Ser Leu Thr Leu Val Leu His Arg Asp Ser  
 275 280 285  
 Gly Ser Leu Gly Phe Asn Ile Ile Gly Gly Arg Pro Ser Val Asp Asn  
 290 295 300  
 His Asp Gly Ser Ser Ser Glu Gly Ile Phe Val Ser Lys Ile Val Asp  
 305 310 315 320  
 Ser Gly Pro Ala Ala Lys Glu Gly Gly Leu Gln Ile His Asp Arg Ile  
 325 330 335  
 Ile Glu Val Asn Gly Arg Asp Leu Ser Arg Ala Thr His Asp Gln Ala  
 340 345 350  
 Val Glu Ala Phe Lys Thr Ala Lys Glu Pro Ile Val Val Gln Val Leu  
 355 360 365  
 Arg Arg Thr Pro Arg Thr Lys Met Phe Thr Pro Pro Ser Glu Ser Gln  
 370 375 380  
 Leu Val Asp Thr Gly Thr Gln Thr Asp Ile Thr Phe Glu His Ile Met  
 385 390 395 400  
 Ala Leu Thr Lys Met Ser Ser Pro Ser Pro Pro Val Leu Asp Pro Tyr  
 405 410 415  
 Leu Leu Pro Glu Glu His Pro Ser Ala His Glu Tyr Tyr Asp Pro Asn  
 420 425 430  
 Asp Tyr Ile Gly Asp Ile His Gln Glu Met Asp Arg Glu Glu Leu Glu  
 435 440 445  
 Leu Glu Glu Val Asp Leu Tyr Arg Met Asn Ser Gln Asp Lys Leu Gly  
 450 455 460  
 Leu Thr Val Cys Tyr Arg Thr Asp Asp Glu Asp Asp Ile Gly Ile Tyr  
 465 470 475 480  
 Ile Ser Glu Ile Asp Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile  
 485 490 495  
 Arg Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Ile Glu Val Gln Asn  
 500 505 510  
 Arg Glu Glu Ala Val Ala Leu Leu Thr Ser Glu Glu Asn Lys Asn Phe  
 515 520 525  
 Ser Leu Leu Ile Ala Arg Ala Glu Leu Gln Leu Asp Glu Gly Trp Met  
 530 535 540  
 Asp Asp Asp Arg Asn Asp Phe Leu Asp Asp Leu His Met Asp Met Leu  
 545 550 555 560  
 Glu Glu Gln His His Gln Ala Met Gln Phe Thr Ala Ser Val Leu Gln  
 565 570 575  
 Gln Lys Lys His Asp Glu Asp Gly Gly Thr Thr Asp Thr Ala Thr Ile  
 580 585 590  
 Leu Ser Asn Gln His Glu Lys Asp Ser Gly Val Gly Arg Thr Asp Glu  
 595 600 605  
 Ser Thr Arg Asn Asp Glu Ser Ser Glu Gln Glu Asn Asn Gly Asp Asp  
 610 615 620  
 Ala Thr Ala Ser Ser Asn Pro Leu Ala Gly Gln Arg Lys Leu Thr Cys  
 625 630 635 640  
 Ser Gln Asp Thr Leu Gly Ser Gly Asp Leu Pro Phe Ser Asn Lys Ser  
 645 650 655  
 Phe Ile Ser Pro Glu Cys Thr Gly Ala Ala Tyr Leu Gly Ile Pro Val  
 660 665 670  
 Asp Glu Cys Glu Arg Phe Arg Glu Leu Leu Glu Leu Lys Cys Gln Val  
 675 680 685  
 Lys Ser Ala Thr Pro Tyr Gly Leu Tyr Tyr Pro Ser Gly Pro Leu Asp  
 690 695 700  
 Ala Gly Lys Ser Asp Pro Glu Ser Val Asp Lys Glu Leu Glu Leu Leu  
 705 710 715 720  
 Asn Glu Glu Leu Arg Ser Ile Glu Leu Glu Cys Leu Ser Ile Val Arg  
 725 730 735  
 Ala His Lys Met Gln Gln Leu Lys Glu Gln Tyr Arg Glu Ser Trp Met

```

      740              745              750
Leu His Asn Ser Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Val Arg
      755              760              765
Arg His Glu Leu Ser Asp Ile Thr Glu Leu Pro Glu Lys Ser Asp Lys
      770              775              780
Asp Ser Ser Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr Pro
      785              790              795
Leu Thr Leu Glu Ile Ser Pro Asp Asn Ser Leu Arg Arg Ala Ala Glu
      800              805              810              815
Gly Ile Ser Cys Pro Ser Ser Glu Gly Ala Val Gly Thr Thr Glu Ala
      820              825              830
Tyr Gly Pro Ala Ser Lys Asn Leu Leu Ser Ile Thr Glu Asp Pro Glu
      835              840              845
Val Gly Thr Pro Thr Tyr Ser Pro Ser Leu Lys Glu Leu Asp Pro Asn
      850              855              860
Gln Pro Leu Glu Ser Lys Glu Arg Arg Ala Ser Asp Gly Ser Arg Ser
      865              870              875
Pro Thr Pro Ser Gln Lys Leu Gly Ser Ala Tyr Leu Pro Ser Tyr His
      880              885              890              895
His Ser Pro Tyr Lys His Ala His Ile Pro Ala His Ala Gln His Tyr
      900              905              910
Gln Ser Tyr Met Gln Leu Ile Gln Gln Lys Ser Ala Val Glu Tyr Ala
      915              920              925
Gln Ser Gln Met Ser Leu Val Ser Met Cys Lys Asp Leu Ser Ser Pro
      930              935              940
Thr Pro Ser Glu Pro Arg Met Glu Trp Lys Val Lys Ile Arg Ser Asp
      945              950              955
Gly Thr Arg Tyr Ile Thr Lys Arg Pro Val Arg Asp Arg Leu Leu Arg
      960              965              970              975
Glu Arg Ala Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp
      980              985              990
Asp Asp Ala Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu
      995              1000              1005
Glu Arg Lys Gln His Leu Val Lys Ala Lys Glu Gln Arg Arg Arg Arg
      1010              1015              1020
Glu Phe Met Met Gln Ser Arg Leu Asp Cys Leu Lys Glu Gln Gln Ala
      1025              1030              1035              1040
Ala Asp Asp Arg Lys Glu Met Asn Ile Leu Glu Leu Ser His Lys Lys
      1045              1050              1055
Met Met Lys Lys Arg Asn Lys Lys Ile Phe Asp Asn Trp Met Thr Ile
      1060              1065              1070
Gln Glu Leu Leu Thr His Gly Thr Lys Ser Pro Asp Gly Thr Arg Val
      1075              1080              1085
Tyr Asn Ser Phe Leu Ser Val Thr Thr Val
      1090              1095              1098

```

&lt;210&gt; 1236

&lt;211&gt; 51

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1236

```

Phe Phe Phe Leu Val Glu Met Gly Phe Cys His Val Gly Gln Gly Gly
  1              5              10              15
Leu Thr Leu Ile Gly Ser Ser Asn Leu Pro Ala Ser Ala Ser Lys Ser
  20              25              30
Ala Gly Ile Thr Gly Val Ser His Cys Ala Arg Pro Asp Phe Lys Ser
  35              40              45
Cys Val Glu

```

50 51

<210> 1237  
 <211> 70  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1237  
 Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Gly Tyr Val Val Gly  
 1 5 10 15  
 Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg  
 20 25 30  
 Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr  
 35 40 45  
 Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Gly Gly Val Ser Val Gln  
 50 55 60  
 Pro Gln Ala Pro Gly Pro  
 65 70

<210> 1238  
 <211> 114  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1238  
 Phe Trp Ala Pro Gly Pro Pro Gly Val Gly Ala Ala Val Gly Asp Ala  
 1 5 10 15  
 Ser Thr Arg Ser Leu Arg Glu Ser Cys Pro Ser Pro Ser Pro Gly Arg  
 20 25 30  
 Leu Arg Arg Thr Thr Ala Pro Trp Ser Ser Gln Ala Arg Ala Ala Ala  
 35 40 45  
 Pro Ala Pro Ser Ser Ser Cys Arg Gly Pro Asp Gly Ala Ser Ser Pro  
 50 55 60  
 Arg Asp Leu Pro Trp Arg Pro Trp Lys Ile Leu Arg Arg Thr Pro Leu  
 65 70 75 80  
 Ser Gly Asp Val Glu Leu Ser Gln Val His Pro Asp Gln Arg Ile Leu  
 85 90 95  
 Arg Arg Phe Ile Leu Ser Arg Thr Cys Gly Asn Thr Ile Pro Gly Met  
 100 105 110  
 Ala Glu  
 114

<210> 1239  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1239  
 Met Arg Arg Phe Leu Ser Lys Val Tyr Ser Phe Pro Met Arg Lys Leu

```

1           5           10           15
Ile Leu Phe Leu Val Phe Pro Val Val Arg Gln Thr Pro Thr Gln His
20
Phe Lys Asn Gln Phe Pro Ala Leu His Trp Glu His Glu Leu Gly Leu
35
Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr Asn Lys Phe Leu Leu Ile
50
Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser Gln Val Thr Phe Arg Gly
65
Met Thr Ser Glu Cys Ser Glu Ile Arg Gln Ala Gly Arg Pro Asn Lys
85
Pro Asp Ser Ile Thr Val Val Ile Thr Lys Val Thr Asp Ser Tyr Pro
100
Glu Pro Thr Gln Leu Leu Met Gly Thr Lys Ser Val Cys Glu Val Gly
115
Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala Met Phe Ser Leu Gln
130
Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp Ile Ser Leu Val Asp
145
Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala Phe Leu Leu
165
170
174

```

<210> 1240  
 <211> 425  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1240
Phe Val Trp Asp Glu Val Ala Gln Arg Ser Gly Cys Glu Glu Arg Trp
1           5           10           15
Leu Val Ile Asp Arg Lys Val Tyr Asn Ile Ser Glu Phe Thr Arg Arg
20
His Pro Gly Gly Ser Arg Val Ile Ser His Tyr Ala Gly Gln Asp Ala
35
Thr Asp Pro Phe Val Ala Phe His Ile Asn Lys Gly Leu Val Lys Lys
50
Tyr Met Asn Ser Leu Leu Ile Gly Glu Leu Ser Pro Glu Gln Pro Ser
65
Phe Glu Pro Thr Lys Asn Lys Glu Leu Thr Asp Glu Phe Arg Gly Leu
85
Arg Ala Thr Val Glu Arg Met Gly Leu Met Lys Ala Asn His Val Phe
100
Phe Leu Leu Tyr Leu Leu His Ile Leu Leu Leu Asp Gly Ala Ala Trp
115
Leu Thr Leu Trp Val Phe Gly Thr Ser Phe Leu Pro Phe Leu Leu Cys
130
Ala Val Leu Leu Ser Ala Val Gln Ala Gln Ala Gly Trp Leu Gln His
145
Asp Phe Gly His Leu Ser Val Phe Ser Thr Ser Lys Tyr Trp Asn His Leu
165
Leu His His Phe Val Ile Gly His Leu Lys Gly Ala Pro Ala Ser Trp
180
Trp Asn His Met His Phe Gln His His Ala Lys Pro Asn Cys Phe Arg
195
Lys Asp Pro Asp Ile Asn Met His Pro Phe Phe Phe Ala Leu Gly Lys
210
Ile Leu Ser Val Glu Leu Gly Lys Gln Lys Lys Lys Tyr Met Pro Tyr
225
Asn His Gln His Lys Tyr Phe Phe Leu Ile Gly Pro Pro Ala Leu Leu
230
235
240

```

```

                245                250                255
Pro Leu Tyr Phe Gln Trp Tyr Ile Phe Tyr Phe Val Ile Gln Arg Lys
                260                265                270
Lys Trp Val Asp Leu Ala Trp Met Ile Thr Phe Tyr Val Arg Phe Phe
                275                280                285
Leu Thr Tyr Val Pro Leu Leu Gly Leu Lys Ala Phe Leu Gly Leu Phe
                290                295                300
Phe Ile Val Arg Phe Leu Leu Ser Asn Trp Phe Val Trp Val Thr Gln
305                310                315                320
Met Asn His Ile Pro Met His Ile Asp His Asp Arg Asn Met Asp Trp
                325                330                335
Val Ser Thr Gln Leu Gln Ala Thr Cys Asn Val His Lys Ser Ala Phe
                340                345                350
Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His Leu
                355                360                365
Phe Pro Thr Met Pro Arg His Asn Tyr His Lys Val Ala Pro Leu Val
                370                375                380
Gln Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Ser Lys Pro Leu
385                390                395                400
Leu Ser Ala Phe Ala Asp Ile Ile His Ser Leu Lys Glu Ser Gly Gln
                405                410                415
Leu Trp Leu Asp Ala Tyr Leu His Gln
                420                425

```

```

<210> 1241
<211> 152
<212>Amino acid
<213> Homo sapiens

```

```

                <400> 1241
Gln Cys Gly Gly Ile Pro Tyr Asn Thr Thr Gln Phe Leu Met Asn Asp
1                5                10                15
Arg Asp Pro Glu Glu Pro Asn Leu Asp Val Pro His Gly Ile Ser His
                20                25                30
Pro Gly Ser Ser Gly Glu Ser Glu Ala Gly Asp Ser Asp Gly Arg Gly
                35                40                45
Arg Ala His Gly Glu Phe Gln Arg Lys Asp Phe Ser Glu Thr Tyr Glu
50                55                60
Arg Phe His Thr Glu Ser Leu Gln Gly Arg Ser Lys Gln Glu Leu Val
55                70                75                80
Arg Asp Tyr Leu Glu Leu Glu Lys Arg Leu Ser Gln Ala Glu Glu Glu
                85                90                95
Thr Arg Arg Leu Gln Gln Leu Gln Ala Cys Thr Gly Gln Gln Ser Cys
                100                105                110
Arg Gln Val Glu Glu Leu Ala Ala Glu Val Gln Arg Leu Arg Thr Glu
                115                120                125
Asn Gln Arg Leu Arg Gln Glu Asn Gln Met Trp Asn Arg Glu Gly Cys
130                135                140
Arg Cys Asp Glu Glu Pro Gly Thr
145                150                152

```

```

<210> 1242
<211> 191
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 1242

```

Ser Pro Glu Arg Ser Ser Leu Ser Val Gly Arg Glu Lys Ala Met Glu
 1           5           10           15
Val Pro Pro Pro Ala Pro Arg Ser Phe Leu Cys Arg Ala Leu Cys Leu
           20           25           30
Phe Pro Arg Val Phe Ala Ala Glu Ala Val Thr Ala Asp Ser Glu Val
           35           40           45
Leu Glu Glu Arg Gln Lys Arg Leu Pro Tyr Val Pro Glu Pro Tyr Tyr
           50           55           60
Pro Glu Ser Gly Trp Asp Arg Leu Arg Glu Leu Phe Gly Lys Asp Val
           65           70           75           80
Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala
           85           90           95
Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Gly Leu Leu
           100          105          110
Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln
           115          120          125
Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly
           130          135          140
Arg Leu Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu
           145          150          155          160
Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu
           165          170          175
Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp
           180          185          190          191

```

&lt;210&gt; 1243

&lt;211&gt; 381

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1243

```

Arg Ser Leu Gly Leu Ala Val Thr Glu Met Val Pro Trp Val Arg Thr
 1           5           10           15
Met Gly Gln Lys Leu Lys Gln Arg Leu Arg Leu Asp Val Gly Arg Glu
           20           25           30
Ile Cys Arg Gln Tyr Pro Leu Phe Cys Phe Leu Leu Leu Cys Leu Ser
           35           40           45
Ala Ala Ser Leu Leu Leu Asn Arg Tyr Ile His Ile Leu Met Ile Phe
           50           55           60
Trp Ser Phe Val Ala Gly Val Val Thr Phe Tyr Cys Ser Leu Gly Pro
           65           70           75           80
Asp Ser Leu Leu Pro Asn Ile Phe Phe Thr Ile Lys Tyr Lys Pro Lys
           85           90           95
Gln Leu Gly Leu Gln Glu Leu Phe Pro Gln Gly His Ser Cys Ala Val
           100          105          110
Cys Gly Lys Val Lys Cys Lys Arg His Arg Pro Ser Leu Leu Leu Glu
           115          120          125
Asn Tyr Gln Pro Trp Leu Asp Leu Lys Ile Ser Ser Lys Val Asp Ala
           130          135          140
Ser Leu Ser Glu Val Leu Glu Leu Val Leu Glu Asn Phe Val Tyr Pro
           145          150          155          160
Trp Tyr Arg Asp Val Thr Asp Asp Glu Ser Phe Val Asp Glu Leu Arg
           165          170          175
Ile Thr Leu Arg Phe Phe Ala Ser Val Leu Ile Arg Arg Ile His Lys
           180          185          190
Val Asp Ile Pro Ser Ile Ile Thr Lys Lys Leu Leu Lys Ala Ala Met

```







	260		265		270
Met	Pro Gly	Pro Val	Asp Val	Ala Cys	Gly Val Asp His
	275		280		285
Thr	Leu Ala	Lys Ser	Phe Ile		
	290		295		

<210> 1246  
 <211> 172  
 <212> Amino acid  
 <213> Homo sapiens

	<400>	1246
Leu	Pro Phe	Arg Glu Trp
1		5
Ala	Val Ala	Ala Phe
	20	25
Arg	Tyr Phe	Cys Ser
	35	40
Arg	Ser Ser	Phe Ser
	50	55
Ser	Gly Met	Leu Ala
65		70
Ser	Ala Ser	Ser Ser
	85	90
Cys	Ser Arg	Phe Ser
	100	105
Ser	Phe Ser	Thr Phe
	115	120
Ser	Ser Leu	Met Thr
	130	135
Ile	Ser Met	Cys Leu
145		150
Asn	Ser Ile	Ser Asn
	165	170
		172

<210> 1247  
 <211> 361  
 <212> Amino acid  
 <213> Homo sapiens

	<400>	1247
Met	Gln Ala	Val Arg
1		5
Ala	Pro Arg	Glu Pro
	20	25
Pro	Ala Ala	Ala Val
	35	40
Ala	Gly Thr	Trp Ser
	50	55
Ser	Gly Leu	Leu Leu
65		70
Ser	Lys Ala	Gly Thr
	85	90
His	His Asp	Asp Asp
		95

```

100      105      110
Pro Leu Leu Ala Val Glu Arg Thr Gly Gln Arg Pro Leu Trp Ala Pro
115      120
Ser Leu Glu Leu Pro Lys Pro Asp Met Gln Pro Leu Pro Ala Gly Ala
130      135      140
Phe Leu Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu
145      150      155      160
Pro Lys Val Leu Asp Pro Glu Glu Asp Leu Leu Cys Ile Ala Lys Thr
165      170      175
Phe Ser Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala
180      185      190
Ser Glu Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu
195      200      205
Val Arg Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys
210      215      220
Thr Thr Arg Gly Pro Thr Asn Val Arg Ile Glu Tyr Ala Asp Ser Ser
225      230      235      240
Phe Arg Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe
245      250      255
Pro Asp Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala
260      265      270
Asp Thr Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro
275      280      285
Met Pro Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro
290      295      300
Pro Ala Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg
305      310      315      320
Ser Ser Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg
325      330      335
Leu Val Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp
340      345      350
Tyr Leu Arg Gln Tyr Pro Phe Gln Leu
355      360      361

```

<210> 1248  
 <211> 279  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1248
Phe Val Asp Ile Phe Gln Arg Trp Lys Glu Cys Arg Gly Lys Ser Pro
1      5      10      15
Ala Gln Ala Glu Leu Ser Tyr Leu Asn Lys Ala Lys Trp Leu Glu Met
20      25      30
Tyr Gly Val Asp Met His Val Val Arg Gly Arg Asp Gly Cys Glu Tyr
35      40      45
Ser Leu Gly Leu Thr Pro Thr Gly Ile Leu Ile Phe Glu Gly Ala Asn
50      55      60
Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Lys Met Asp Phe Lys
65      70      75      80
Lys Ser Lys Leu Thr Leu Val Val Val Glu Asp Asp Asp Gln Gly Arg
85      90      95
Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp Ser Ala Arg Thr Cys
100      105      110
Lys His Leu Trp Lys Cys Ala Val Glu His His Ala Phe Phe Arg Leu
115      120      125
Arg Thr Pro Gly Asn Ser Lys Ser Asn Arg Ser Asp Phe Ile Arg Leu
130      135      140
Gly Ser Arg Phe Arg Phe Ser Gly Arg Thr Glu Tyr Gln Ala Thr His

```

```

145          150          155          160
Gly Ser Arg Leu Arg Arg Thr Ser Thr Phe Glu Arg Lys Pro Ser Lys
          165          170          175
Arg Tyr Pro Ser Arg Arg His Ser Thr Phe Lys Ala Ser Asn Pro Val
          180          185          190
Ile Ala Ala Gln Leu Cys Ser Lys Thr Asn Pro Glu Val His Asn Tyr
          195          200          205
Gln Pro Gln Tyr His Pro Asn Ile His Pro Ser Gln Pro Arg Trp His
          210          215          220
Pro His Ser Pro Asn Val Arg Pro Ser Phe Gln Asp Asp Arg Ser His
          225          230          235
Trp Lys Ala Ser Ala Ser Gly Asp Asp Ser His Phe Asp Tyr Val His
          240          245          250          255
Asp Gln Asn Gln Lys Asn Leu Gly Gly Met Gln Ser Met Met Tyr Arg
          260          265          270
Asp Lys Leu Met Thr Ala Leu
          275          279

```

&lt;210&gt; 1249

&lt;211&gt; 255

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(255)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1249

```

Gly Gly Ile Arg Leu Ile Gln Lys Leu Thr Trp Arg Ser Arg Gln Gln
 1          5          10          15
Asp Arg Glu Asn Cys Ala Met Lys Gly Lys His Lys Asp Glu Cys His
          20          25          30
Asn Phe Ile Lys Val Phe Val Pro Arg Asn Asp Glu Met Val Phe Val
          35          40          45
Cys Gly Thr Asn Ala Phe Asn Pro Met Cys Arg Tyr Tyr Arg Val Ser
          50          55          60
Ile Phe Tyr Val Ile Cys Phe Phe Xaa Ser Thr Phe Leu Pro Ser Leu
          65          70          75          80
Ile Cys Cys Xaa Ser Xaa Asn Leu Ser Ala Phe Gln Xaa Phe Val Leu
          85          90          95
Ser Leu Val Gln Xaa Lys Asn Lys Asp Arg Ile Leu Gln Met Glu Phe
          100          105          110
Xaa Tyr Lys Xaa Asn Ser Ile Ala Phe Lys Arg Ala Arg Xaa Ile Asp
          115          120          125
Met Thr Leu Ala Ile Tyr Phe Ser Phe Val Leu Ser Thr Leu Xaa Tyr
          130          135          140
Asp Gly Glu Glu Ile Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg
          145          150          155          160
Gln Thr Asn Gly Ala Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr
          165          170          175
Val Ala Asp Phe Leu Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly
          180          185          190
Asp Gly Ser Ala Leu Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys
          195          200          205
Glu Pro His Phe Leu Tyr Ala Ile Lys Tyr Gly Asn Tyr Val Tyr Phe
          210          215          220
Ser Phe Arg Glu Ile Val Ala Thr Xaa Xaa Leu Gly Lys Ala Val Asp
          225          230          235          240

```

Ser Arg Val Ala Arg Tyr Glu Lys Gln Leu Val Gly Pro Thr Val  
 245 250 255

<210> 1250  
 <211> 307  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1250  
 Ala Arg Ala Leu Ala Arg Glu Arg Glu Ser Glu Ser Ala Arg Ala Asp  
 1 5 10 15  
 Asp Val Thr Leu Gly Val Ser Ala Ile Leu Ala Val Asp Arg Gly Gly  
 20 25 30  
 Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu Val Arg  
 35 40 45  
 Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser Gly Asn  
 50 55 60  
 Gly Ser Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu Ser Pro  
 65 70 75 80  
 Phe His Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg Gly Pro  
 85 90 95  
 Gly Pro Val Leu Gly Val Ala Arg Pro Cys Leu Arg Cys Val Leu Arg  
 100 105 110  
 Pro Glu His Tyr Glu Pro Gly Ser His Tyr Ser Gly Phe Ala Gly Arg  
 115 120 125  
 Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys Ser Glu Ala Gly Leu  
 130 135 140  
 Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu Met Leu Thr Leu His  
 145 150 155 160  
 Asn Trp Leu Ser Phe Tyr Glu Lys Asn Trp Val Cys Val Gly Arg Val  
 165 170 175  
 Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala Leu Thr  
 180 185 190  
 Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys Leu Gln  
 195 200 205  
 Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp Ser Ser  
 210 215 220  
 Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly Val Ser  
 225 230 235 240  
 Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr Lys Pro Gly Ala Lys  
 245 250 255  
 Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly Pro Pro Ser Gly Gln  
 260 265 270  
 Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp His Pro  
 275 280 285  
 Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr Cys Ser  
 290 295 300  
 Phe Pro Leu  
 305 307

<210> 1251  
 <211> 100  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1251

```

Tyr Phe Ile Ile Cys Arg Asp Gly Val Leu Leu Phe Cys Pro Gly Trp
 1          5          10          15
Ser Gln Thr Pro Gly Ala Gln Ala Ile Leu Leu His Trp Ala Thr Gln
          20          25          30
Asn Ala Gly Met Thr Asp Met Ser His Ser Ala Gln Pro Ile Tyr Leu
          35          40          45
Phe Ile Tyr Leu Ile Arg Thr Arg Ser His Tyr Val Ala Gln Ala Gly
          50          55          60
Gln Leu Leu Asp Ser Asn Asp Ser Pro Asn Val Ala Ser Gln Asn Val
          65          70          75          80
Gly Ile Thr Gly Met Ser His His Ala Trp Lys Ile Val Leu Tyr
          85          90          95
Phe Cys Ile Ile
          100

```

&lt;210&gt; 1252

&lt;211&gt; 464

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1252

```

Pro Ala Ala Arg Pro Pro Ser Leu Val Arg Leu Ser Pro Ser Pro Pro
 1          5          10          15
Lys Pro Arg Ala Arg Ala Arg Ala Pro Gln Ser Val Glu Pro Ala Ala
          20          25          30
Pro Leu Val Ala Arg Gly Ser Ser Pro Pro Ala Arg Pro Ala Pro Ala
          35          40          45
Met Val Arg Pro Arg Arg Ala Pro Tyr Arg Ser Gly Ala Gly Gly Pro
          50          55          60
Leu Gly Gly Arg Gly Arg Pro Pro Arg Pro Leu Val Val Arg Ala Val
          65          70          75          80
Arg Ser Arg Ser Trp Pro Ala Ser Pro Arg Gly Pro Gln Pro Pro Arg
          85          90          95
Ile Arg Ala Arg Ser Ala Pro Pro Met Glu Gly Ala Arg Val Phe Gly
          100          105          110
Ala Leu Gly Pro Ile Gly Pro Ser Ser Pro Gly Leu Thr Leu Gly Gly
          115          120          125
Leu Ala Val Ser Glu His Arg Leu Ser Asn Lys Leu Leu Ala Trp Ser
          130          135          140
Gly Val Leu Glu Trp Gln Glu Lys Arg Arg Pro Tyr Ser Asp Ser Thr
          145          150          155          160
Ala Lys Leu Lys Arg Thr Leu Pro Cys Gln Ala Tyr Val Asn Gln Gly
          165          170          175
Glu Asn Leu Glu Thr Asp Gln Trp Pro Gln Lys Leu Ile Met Gln Leu
          180          185          190
Ile Pro Gln Gln Leu Leu Thr Thr Leu Gly Pro Leu Phe Arg Asn Ser
          195          200          205
Gln Leu Ala Gln Phe His Phe Thr Asn Arg Asp Cys Asp Ser Leu Lys
          210          215          220
Gly Leu Cys Arg Ile Met Gly Asn Gly Phe Ala Gly Cys Met Leu Phe
          225          230          235          240
Pro His Ile Ser Pro Cys Glu Val Arg Val Leu Met Leu Leu Tyr Ser
          245          250          255
Ser Lys Lys Lys Ile Phe Met Gly Leu Ile Pro Tyr Asp Gln Ser Gly
          260          265          270
Phe Val Ser Ala Ile Arg Gln Val Ile Thr Thr Arg Lys Gln Ala Val
          275          280          285

```

Gly Pro Gly Gly Val Asn Ser Gly Pro Val Gln Ile Val Asn Asn Lys  
 290 295 300  
 Phe Leu Ala Trp Ser Gly Val Met Glu Trp Gln Glu Pro Arg Pro Glu  
 305 310 315 320  
 Pro Asn Ser Arg Ser Lys Arg Trp Leu Pro Ser His Val Tyr Val Asn  
 325 330 335  
 Gln Gly Glu Ile Leu Arg Thr Glu Gln Trp Pro Arg Lys Leu Tyr Met  
 340 345 350  
 Gln Leu Ile Pro Gln Gln Leu Leu Thr Thr Leu Val Pro Leu Phe Arg  
 355 360 365  
 Asn Ser Arg Leu Val Gln Phe His Phe Thr Lys Asp Leu Glu Thr Leu  
 370 375 380  
 Lys Ser Leu Cys Arg Ile Met Asp Asn Gly Phe Ala Gly Cys Val His  
 385 390 395 400  
 Phe Ser Tyr Lys Ala Ser Cys Glu Ile Arg Val Leu Met Leu Leu Tyr  
 405 410 415  
 Ser Ser Glu Lys Lys Ile Phe Ile Gly Leu Ile Pro His Asp Gln Gly  
 420 425 430  
 Asn Phe Val Asn Gly Ile Arg Arg Val Ile Ala Asn Gln Gln Gln Val  
 435 440 445  
 Leu Gln Arg Asn Leu Glu Gln Glu Gln Gln Arg Gly Met Gly Gly  
 450 455 460 464

&lt;210&gt; 1253

&lt;211&gt; 214

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1253

Gly Arg Pro Ala Leu Gly Arg Glu Ala Pro Pro Gln Ala Gly Leu Ser  
 1 5 10 15  
 Ser Thr Pro Pro Pro Cys Ser Glu Thr Cys Thr Met Gly Pro His Ser  
 20 25 30  
 Ile Leu Arg Thr Val His Cys Arg Pro Thr Lys Thr Pro Pro Glu Pro  
 35 40 45  
 Ser Ala Glu Pro His Pro Leu Ser Leu Leu Thr Ser Ser Asn Thr Ser  
 50 55 60  
 Leu Ala Gly Thr Ser Leu Gly Arg Asp Leu Thr Pro Gly Gly Gly Lys  
 65 70 75 80  
 Pro Pro Ser Gly Gln Thr Pro Arg Asn Pro Glu Ser Pro Arg His Arg  
 85 90 95  
 Leu Gly Ser Pro Arg Gly Arg Arg Trp Leu Ala Ser Pro Thr Pro Thr  
 100 105 110  
 Gly Ser Gly Arg Ser Gly Pro Ala Ser Arg Gly Gln Arg Arg Leu Ser  
 115 120 125  
 Cys Ala Ala Gln Asp Pro Thr Ser Glu Gly Ala Ser Val Gly Ala Met  
 130 135 140  
 Glu Ala Gly Leu Gly Pro Pro Thr Ala Ala Pro Arg Gly Val Val Ser  
 145 150 155 160  
 Glu Ala Ala Glu Ser Leu Gly Gly Thr Leu Ser Trp Gly Ala Trp Gly  
 165 170 175  
 Arg Pro Pro Ala Gly Pro Ser Gly Leu Ala Gly Arg Arg Ser Arg Arg  
 180 185 190  
 Glu Ala Leu Arg Pro Asp Arg Lys Glu Ala Ser Val Met Met Ala Ala  
 195 200 205  
 Val Ser Ala Ile Gln Pro  
 210 214



<210> 1254  
 <211> 198  
 <212> Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(198)  
 <223> X = any amino acid or stop code

<400> 1254  
 Pro Gly Val Pro Thr His Gly Trp Pro Arg Ser Arg Val Leu Thr Arg  
 1 5 10 15  
 Val Arg Gly Ser Arg Gly Ser Gly Lys Met Ala Ala Val Val Leu  
 20 25 30  
 Ala Ala Gly Leu Arg Ala Ala Arg Arg Ala Val Ala Ala Thr Gly Val  
 35 40 45  
 Arg Gly Gly Gln Val Arg Gly Ala Ala Gly Val Thr Asp Gly Asn Glu  
 50 55 60  
 Val Ala Lys Ala Gln Gln Ala Thr Pro Gly Gly Ala Ala Pro Thr Ile  
 65 70 75 80  
 Phe Ser Arg Ile Leu Asp Lys Ser Leu Pro Ala Asp Ile Leu Tyr Glu  
 85 90 95  
 Asp Gln Gln Cys Leu Val Phe Arg Asp Val Ala Pro Gln Ala Pro Val  
 100 105 110  
 His Phe Leu Val Ile Pro Lys Lys Pro Ile Pro Arg Ile Ser Gln Ala  
 115 120 125  
 Glu Glu Glu Asp Gln Gln Leu Thr Tyr Val Pro Pro Leu Ser Leu Xaa  
 130 135 140  
 Leu Leu Gly His Leu Leu Leu Val Ala Lys Gln Thr Ala Lys Ala Glu  
 145 150 155 160  
 Gly Leu Gly Asp Gly Tyr Arg Leu Val Ile Asn Asp Gly Lys Leu Gly  
 165 170 175  
 Ala Gln Ser Val Tyr His Leu His Ile His Val Leu Gly Gly Arg Gln  
 180 185 190  
 Leu Gln Trp Pro Pro Gly  
 195 198

<210> 1255  
 <211> 458  
 <212> Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(458)  
 <223> X = any amino acid or stop code

<400> 1255  
 Val Pro Asn Tyr Leu Pro Ser Val Ser Ser Ala Ile Gly Gly Glu Val  
 1 5 10 15  
 Pro Gln Arg Tyr Val Trp Arg Phe Cys Ile Gly Leu His Ser Ala Pro  
 20 25 30

Arg Phe Leu Val Ala Phe Ala Tyr Trp Asn His Tyr Leu Ser Cys Thr  
 35 40 45  
 Ser Pro Cys Ser Cys Tyr Arg Pro Leu Cys Arg Leu Asn Phe Gly Leu  
 50 55 60  
 Asn Val Val Glu Asn Leu Ala Leu Leu Val Leu Thr Tyr Val Ser Ser  
 65 70 75 80  
 Ser Glu Asp Phe Thr Trp Val Pro Gly Xaa Gly Arg Ser Gly Glu Val  
 85 90 95  
 Phe Pro Glu Gly Thr Gly Leu Pro Leu Pro His Ser Asp Leu Pro Thr  
 100 105 110  
 Ser Trp Cys Gly His Ser Leu Gln Cys Gly Ser Gln Ser Ser Phe Pro  
 115 120 125  
 Pro Ala Ile His Glu Asn Ala Phe Ile Val Phe Ile Ala Ser Ser Leu  
 130 135 140  
 Gly His Met Leu Leu Thr Cys Ile Leu Trp Arg Leu Thr Lys Lys His  
 145 150 155 160  
 Thr Val Ser Gln Glu Asp Gly Leu Ser Leu Ala Gly Ala Pro Arg Gln  
 165 170 175  
 Pro Arg Arg Lys Ser Arg Thr Ser Val Leu Arg Ile Arg Val Met Val  
 180 185 190  
 Arg Trp Glu Leu Ser Ser Asn Gly Asn Pro Gly Arg Gly Val Leu Gly  
 195 200 205  
 Leu Gly Leu Gly Leu Gly Asn Lys Leu Arg Val Val Gly Gln Asn Leu  
 210 215 220  
 Gly Leu Xaa His Cys Val Trp Val Val Trp Glu Thr Gly Glu Xaa Lys  
 225 230 235 240  
 Arg Trp Arg Leu Gln Met Gly Ile Glu Xaa Gly Val Ala Ser Arg Arg  
 245 250 255  
 Gln Xaa Val Arg Asn Ser Val Arg Gly Leu Val Cys His Asn Ser Ser  
 260 265 270  
 Ala Pro Pro Met Tyr Met Gly Phe Phe Ser Pro Thr Val Phe Gly Gly  
 275 280 285  
 Gly Val Gly Gly Xaa Leu His Val Thr Phe Ile Leu His Pro Pro Glu  
 290 295 300  
 Val Glu Ala Ala Gly Ile Pro Leu Leu Glu Pro Ser Leu Pro Gln  
 305 310 315 320  
 Arg Gln Gly Arg Glu His Ile Val Val Ile Leu Ala Ala Pro Ala Cys  
 325 330 335  
 Ala Pro Phe His Asp Arg Xaa Trp Glu Pro Arg Glu Ile Arg Pro Ser  
 340 345 350  
 Pro Xaa Glu Leu Gly Leu Arg Gly Glu Pro Thr Leu Ser Tyr Pro Ala  
 355 360 365  
 Ser Cys Arg Val Ile Arg Gln Pro Ile Pro Xaa Asp Arg Lys Ser Tyr  
 370 375 380  
 Ser Trp Lys Gln Arg Leu Phe Ile Ile Asn Phe Ile Ser Phe Phe Ser  
 385 390 395 400  
 Ala Leu Ala Val Tyr Phe Arg His Asn Met Tyr Cys Glu Ala Gly Val  
 405 410 415  
 Tyr Thr Ile Phe Ala Ile Leu Glu Tyr Thr Val Val Leu Thr Asn Met  
 420 425 430  
 Ala Phe His Met Thr Ala Trp Trp Asp Phe Gly Asn Lys Glu Leu Leu  
 435 440 445  
 Ile Thr Ser Gln Pro Glu Glu Lys Arg Phe  
 450 455 458

&lt;210&gt; 1256

&lt;211&gt; 83

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1256  
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe  
 1 5 10 15  
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val  
 20 25 30  
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn  
 35 40 45  
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp  
 50 55 60  
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His  
 65 70 75 80  
 Asp Glu Leu  
 83

<210> 1257  
 <211> 203  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1257  
 Pro Arg Val Arg Gly Arg Val Gly Lys Glu Gly Ala Ala Ala Lys Pro  
 1 5 10 15  
 Arg Ser Leu Leu Arg Arg Phe Gln Leu Ser Trp Ser Val Cys Gly  
 20 25 30  
 Gly Asn Lys Asp Pro Trp Val Gln Glu Leu Met Ser Cys Leu Asp Leu  
 35 40 45  
 Lys Glu Cys Gly His Ala Tyr Ser Gly Ile Val Ala His Gln Lys His  
 50 55 60  
 Leu Leu Pro Thr Ser Pro Pro Ile Ser Gln Ala Ser Glu Gly Ala Ser  
 65 70 75 80  
 Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr Leu Gln Ser  
 85 90 95  
 Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser Asp Lys Glu  
 100 105 110  
 Leu Thr Arg Pro Asn Glu Thr Thr Ile His Thr Ala Gly His Ser Leu  
 115 120 125  
 Ala Ala Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro Glu Lys Asn  
 130 135 140  
 Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val Leu Cys Leu  
 145 150 155 160  
 Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Leu Ser Tyr Val Leu Cys  
 165 170 175  
 Lys Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp Leu Pro Val  
 180 185 190  
 His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr  
 195 200 203

<210> 1258  
 <211> 195  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1258

```

Leu Ile Ile Ser Asn Phe Leu Lys Ala Lys Gln Lys Pro Gly Ser Thr
1      5      10      15
Pro Asn Leu Gln Gln Lys Lys Ser Gln Ala Arg Leu Ala Pro Asp Ile
20      25      30
Val Ser Ala Ser Gln Tyr Arg Lys Phe Asp Glu Phe Gln Thr Gly Ile
35      40      45
Leu Ile Tyr Glu Leu Leu His Gln Pro Asn Pro Phe Glu Val Arg Ala
50      55      60
Gln Leu Arg Glu Arg Asp Tyr Arg Gln Glu Asp Leu Pro Pro Leu Pro
65      70      75      80
Ala Leu Ser Leu Tyr Ser Pro Gly Leu Gln Gln Leu Ala His Leu Leu
85      90      95
Leu Glu Ala Asp Pro Ile Lys Arg Ile Arg Ile Gly Glu Ala Lys Arg
100     105     110
Val Leu Gln Cys Leu Leu Trp Gly Pro Arg Arg Glu Leu Val Gln Gln
115     120     125
Pro Gly Thr Ser Glu Glu Ala Leu Cys Gly Thr Leu His Asn Trp Ile
130     135     140
Asp Met Lys Arg Ala Leu Met Met Met Lys Phe Ala Glu Lys Ala Val
145     150     155     160
Asp Arg Arg Arg Gly Val Glu Leu Glu Asp Trp Leu Cys Cys Gln Tyr
165     170     175
Leu Ala Ser Ala Glu Pro Gly Ala Leu Leu Gln Ser Leu Lys Leu Leu
180     185     190
Gln Leu Leu
195

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&lt;210&gt; 1259

&lt;211&gt; 672

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(672)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1259

```

Lys Arg Gly Leu Ile Val Val Met Ala His Glu Met Ile Gly Thr Gln
1      5      10      15
Ile Val Thr Glu Arg Gly Val Ala Leu Leu Glu Ser Gly Thr Glu Lys
20      25      30
Val Leu Leu Ile Asp Ser Arg Pro Phe Val Glu Tyr Asn Thr Ser His
35      40      45
Ile Leu Glu Ala Ile Asn Ile Asn Cys Ser Lys Leu Met Lys Arg Arg
50      55      60
Leu Gln Gln Asp Lys Val Leu Ile Thr Glu Leu Ile Gln His Ser Ala
65      70      75      80
Lys His Lys Val Asp Ile Asp Cys Ser Gln Lys Val Val Val Tyr Asp
85      90      95
Gln Ser Ser Gln Asp Val Ala Ser Leu Ser Ser Asp Cys Phe Leu Thr
100     105     110
Val Leu Leu Gly Lys Leu Glu Lys Ser Phe Asn Ser Val His Leu Leu
115     120     125
Ala Gly Gly Phe Ala Glu Phe Ser Arg Cys Phe Pro Gly Leu Cys Glu
130     135     140
Gly Lys Ser Thr Leu Val Pro Thr Cys Ile Ser Gln Pro Cys Leu Pro
145     150     155     160
Val Ala Asn Ile Gly Pro Thr Arg Ile Leu Pro Asn Leu Tyr Leu Gly

```



<210> 1260  
 <211> 260  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1260  
 Ala Ser Ser Ser Lys Arg Val Ser Arg Gln Lys Met Leu Gln Leu Trp  
 1 5 10 15  
 Lys Leu Val Leu Leu Cys Gly Val Leu Thr Gly Thr Ser Glu Ser Leu  
 20 25 30  
 Leu Asp Asn Leu Gly Asn Asp Leu Ser Asn Val Val Asp Lys Leu Glu  
 35 40 45  
 Pro Val Leu His Glu Gly Leu Glu Thr Val Asp Asn Thr Leu Lys Gly  
 50 55 60  
 Ile Leu Glu Lys Leu Lys Val Asp Leu Gly Val Leu Gln Lys Ser Ser  
 65 70 75 80  
 Ala Trp Gln Leu Ala Lys Gln Lys Ala Gln Glu Ala Glu Lys Leu Leu  
 85 90 95  
 Asn Asn Val Ile Ser Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly  
 100 105 110  
 Leu Lys Ile Ser Asn Ser Leu Ile Leu Asp Val Lys Ala Glu Pro Ile  
 115 120 125  
 Asp Asp Gly Lys Gly Leu Asn Leu Ser Phe Pro Val Thr Ala Asn Val  
 130 135 140  
 Thr Glu Ala Gly Pro Ile Ile Asp Gln Ile Ile Asn Leu Arg Ala Ser  
 145 150 155 160  
 Leu Asp Leu Leu Thr Ala Val Thr Ile Glu Thr Asp Pro Gln Thr His  
 165 170 175  
 His Pro Val Ala Gly Leu Gly Glu Cys Ala Arg Asp Pro Thr Ser Ile  
 180 185 190  
 Ser Leu Cys Leu Leu Asp Lys His Ser Gln Ile Ile Asn Lys Phe Val  
 195 200 205  
 Asn Ser Val Ile Asn Thr Leu Lys Ser Thr Val Ser Ser Leu Leu Gln  
 210 215 220  
 Lys Glu Ile Cys Pro Leu Ile Arg Ile Phe Ile His Ser Leu Asp Val  
 225 230 235 240  
 Asn Val Ile Gln Gln Val Val Asp Asn Pro Gln His Lys Thr Gln Leu  
 245 250 255  
 Gln Thr Leu Ile  
 260

<210> 1261  
 <211> 278  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1261  
 Cys Ser Leu Arg Arg Pro Arg Ser Ala Ala Glu Pro Asp Ala Asp His  
 1 5 10 15  
 Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln  
 20 25 30  
 Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu

35 40 45  
 Arg Gly Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser  
 50 55 60  
 Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg  
 65 70 75 80  
 Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly  
 85 90 95  
 Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr  
 100 105 110  
 Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys  
 115 120 125  
 Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys  
 130 135 140  
 Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu  
 145 150 155 160  
 Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe  
 165 170 175  
 Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp  
 180 185 190  
 Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu  
 195 200 205  
 Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile  
 210 215 220  
 Asn Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly  
 225 230 235 240  
 Ala Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr  
 245 250 255  
 Pro Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile  
 260 265 270  
 Ile Glu Glu Leu Pro Lys  
 275 278

&lt;210&gt; 1262

&lt;211&gt; 362

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1262

Met His Ser Ala Met Leu Gly Thr Arg Val Asn Leu Ser Val Ser Asp  
 1 5 10 15  
 Phe Trp Arg Val Met Met Arg Val Cys Trp Leu Val Arg Gln Asp Ser  
 20 25 30  
 Arg His Gln Arg Ile Arg Leu Pro His Leu Glu Ala Val Val Ile Gly  
 35 40 45  
 Arg Gly Pro Glu Thr Lys Ile Thr Asp Lys Lys Cys Ser Arg Gln Gln  
 50 55 60  
 Val Gln Leu Lys Ala Glu Cys Asn Lys Gly Tyr Val Lys Val Lys Gln  
 65 70 75 80  
 Val Gly Val Asn Pro Thr Ser Ile Asp Ser Val Val Ile Gly Lys Asp  
 85 90 95  
 Gln Glu Val Lys Leu Gln Pro Gly Gln Val Leu His Met Val Asn Glu  
 100 105 110  
 Leu Tyr Pro Tyr Ile Val Glu Phe Glu Glu Glu Ala Lys Asn Pro Gly  
 115 120 125  
 Leu Glu Thr His Arg Lys Arg Lys Arg Ser Gly Asn Ser Asp Ser Ile  
 130 135 140  
 Glu Arg Asp Ala Ala Gln Glu Ala Glu Ala Gly Thr Gly Leu Glu Pro  
 145 150 155 160  
 Gly Ser Asn Ser Gly Gln Cys Ser Val Pro Leu Lys Lys Gly Lys Asp

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165      170      175
Ala Pro Ile Lys Lys Glu Ser Leu Gly His Trp Ser Gln Gly Leu Lys
180      185      190
Ile Ser Met Gln Asp Pro Lys Met Gln Val Tyr Lys Asp Glu Gln Val
195      200      205
Val Val Ile Lys Asp Lys Tyr Pro Lys Ala Arg Tyr His Trp Leu Val
210      215      220
Leu Pro Trp Thr Ser Ile Ser Ser Leu Lys Ala Val Ala Arg Glu His
225      230      235      240
Leu Glu Leu Leu Lys His Met His Thr Val Gly Glu Lys Val Ile Val
245      250      255
Asp Phe Ala Gly Ser Ser Lys Leu Arg Phe Arg Leu Gly Tyr His Ala
260      265      270
Ile Pro Ser Met Ser His Val His Leu His Val Ile Ser Gln Asp Phe
275      280      285
Asp Ser Pro Cys Leu Lys Asn Lys Lys His Trp Asn Ser Phe Asn Thr
290      295      300
Glu Tyr Phe Leu Glu Ser Gln Ala Val Ile Glu Met Val Gln Glu Ala
305      310      315      320
Gly Arg Val Thr Val Arg Asp Gly Met Pro Glu Leu Leu Lys Leu Pro
325      330      335
Leu Arg Cys His Glu Cys Gln Gln Leu Leu Pro Ser Ile Pro Gln Leu
340      345      350
Lys Glu His Leu Arg Lys His Trp Thr Gln
355      360      362

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&lt;210&gt; 1263

&lt;211&gt; 618

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(618)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1263

```

Asp Met Ser Asp Thr Ser Glu Ser Gly Ala Gly Leu Thr Arg Phe Gln
1      5      10      15
Ala Glu Ala Ser Glu Lys Asp Ser Ser Ser Met Met Gln Thr Leu Leu
20      25      30
Thr Val Thr Gln Asn Val Glu Val Pro Glu Thr Pro Lys Ala Ser Lys
35      40      45
Ala Leu Glu Val Ser Glu Asp Val Lys Val Ser Lys Ala Ser Gly Val
50      55      60
Ser Lys Ala Thr Glu Val Ser Lys Thr Pro Glu Ala Arg Glu Ala Pro
65      70      75      80
Ala Thr Gln Ala Ser Ser Thr Thr Gln Leu Thr Asp Thr Gln Val Leu
85      90      95
Ala Ala Glu Asn Lys Ser Leu Ala Ala Asp Thr Lys Lys Gln Asn Ala
100      105      110
Asp Pro Gln Ala Val Thr Met Pro Ala Thr Glu Thr Lys Lys Val Ser
115      120      125
His Val Ala Asp Thr Lys Val Asn Thr Lys Ala Gln Glu Thr Glu Ala
130      135      140
Ala Pro Ser Gln Ala Pro Ala Asp Glu Pro Glu Pro Glu Ser Ala Ala
145      150      155      160
Ala Gln Ser Gln Glu Asn Gln Asp Thr Arg Pro Lys Val Lys Ala Lys
165      170      175

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Lys Ala Arg Lys Val Lys His Leu Asp Gly Glu Glu Asp Gly Ser Ser  
 180 185 190  
 Asp Gln Ser Gln Ala Ser Gly Thr Thr Gly Gly Arg Arg Val Ser Lys  
 195 200 205  
 Ala Leu Met Ala Ser Met Ala Arg Arg Ala Ser Arg Gly Pro Ile Ala  
 210 215 220  
 Phe Trp Ala Arg Arg Ala Ser Arg Thr Arg Leu Ala Cys Phe Gly Pro  
 225 230 235 240  
 Gly Glu Pro Leu Leu Ser Pro Trp Arg Ser Pro Lys Ala Arg Arg Gln  
 245 250 255  
 Arg Gly Phe Ala Val Arg Val Ala Lys Phe Gln Ser Ser Gln Glu Pro  
 260 265 270  
 Glu Ala Pro Pro Pro Trp Asp Val Ala Leu Leu Gln Gly Arg Ala Asn  
 275 280 285  
 Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile  
 290 295 300  
 Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val  
 305 310 315 320  
 Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe  
 325 330 335  
 Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu  
 340 345 350  
 Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys  
 355 360 365  
 Asp Ser Pro Lys Leu Gly Leu Leu Met Val Leu Leu Ser Ile Ile Phe  
 370 375 380  
 Met Asn Gly Asn Arg Ser Ser Glu Ala Val Ile Trp Glu Val Leu Arg  
 385 390 395 400  
 Arg Ser Leu Gly Leu Arg Leu Gly Ile His Ser Leu Leu Gly Asp  
 405 410 415  
 Val Lys Lys Leu Ile Thr Asp Glu Val Val Lys Gln Lys Tyr Leu Asp  
 420 425 430  
 Tyr Ala Arg Val Pro His Ser Asn Ser Pro Glu Tyr Glu Phe Phe Trp  
 435 440 445  
 Gly Leu Arg Ser Tyr Tyr Glu Asp Gln Gln Arg Xaa Lys Ser Phe Lys  
 450 455 460  
 Phe Ala Cys Lys Val Gln Lys Lys Asp Pro Lys Glu Trp Ala Ala Gln  
 465 470 475 480  
 Ser Pro Pro Gly Lys Ala Arg Glu Arg Met Glu Ala Asp Leu Lys Ala  
 485 490 495  
 Ala Ser Xaa Gly Ser Pro Trp Lys Pro Arg Leu Arg Ala Glu Ile Lys  
 500 505 510  
 Ala Arg Met Gly Ile Gly Leu Gly Ser Glu Asn Ala Ala Gly Pro Cys  
 515 520 525  
 Asn Trp Asp Glu Ala Asp Ile Gly Pro Trp Ala Lys Ala Arg Ile Gln  
 530 535 540  
 Ala Gly Ala Glu Ala Lys Ala Lys Ala Gln Glu Ser Gly Ser Ala Ser  
 545 550 555 560  
 Thr Gly Ala Ser Thr Ser Thr Asn Asn Ser Ala Ser Ala Ser Ala Ser  
 565 570 575  
 Thr Ser Gly Gly Phe Ser Ala Gly Ala Ser Leu Thr Ala Thr Leu Thr  
 580 585 590  
 Phe Gly Leu Phe Ala Gly Leu Gly Gly Ala Gly Ala Ser Thr Ser Gly  
 595 600 605  
 Ser Ser Gly Ala Cys Gly Phe Ser Tyr Lys  
 610 615 618

&lt;210&gt; 1264

&lt;211&gt; 464

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(464)  
 <223> X = any amino acid or stop code

<400> 1264  
 Ala Arg Pro Pro Val Cys Thr Gly Ser Thr Met Ser Leu Thr Val Val  
 1 5 10 15  
 Ser Met Ala Cys Val Gly Phe Phe Leu Leu Gln Gly Ala Trp Pro Leu  
 20 25 30  
 Met Gly Gly Gln Asp Lys Pro Phe Leu Ser Ala Arg Pro Ser Thr Val  
 35 40 45  
 Val Pro Arg Gly Gly His Val Ala Leu Gln Cys His Tyr Arg Arg Gly  
 50 55 60  
 Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp Arg Ser His Val Pro Ile  
 65 70 75 80  
 Phe His Gly Arg Ile Phe Gln Glu Ser Phe Ile Met Gly Pro Val Thr  
 85 90 95  
 Pro Ala His Ala Gly Thr Tyr Arg Cys Arg Gly Ser Arg Pro His Ser  
 100 105 110  
 Leu Thr Gly Trp Ser Ala Pro Ser Asn Pro Leu Val Ile Met Val Thr  
 115 120 125  
 Gly Asn His Arg Lys Pro Ser Leu Leu Ala His Pro Gly Pro Leu Leu  
 130 135 140  
 Lys Ser Gly Glu Thr Val Ile Leu Gln Cys Trp Ser Asp Ile Met Phe  
 145 150 155 160  
 Glu His Phe Phe Leu His Lys Glu Gly Ile Ser Lys Asp Pro Ser Arg  
 165 170 175  
 Leu Val Gly Gln Ile His Asp Gly Val Ser Lys Ala Asn Phe Ser Ile  
 180 185 190  
 Gly Pro Met Met Leu Ala Leu Ala Gly Thr Tyr Arg Cys Tyr Gly Ser  
 195 200 205  
 Val Thr His Thr Pro Tyr Gln Leu Ser Ala Pro Ser Asp Pro Leu Asp  
 210 215 220  
 Ile Val Val Thr Gly Pro Tyr Glu Lys Pro Ser Leu Ser Ala Gln Pro  
 225 230 235 240  
 Gly Pro Lys Val Gln Ala Gly Glu Ser Val Thr Leu Ser Cys Ser Ser  
 245 250 255  
 Arg Ser Ser Tyr Asp Met Tyr His Leu Ser Arg Glu Gly Ala His  
 260 265 270  
 Glu Arg Arg Leu Pro Ala Val Arg Lys Val Asn Arg Thr Phe Gln Ala  
 275 280 285  
 Asp Phe Pro Leu Gly Pro Ala Thr His Gly Gly Thr Tyr Arg Cys Phe  
 290 295 300  
 Gly Ser Phe Arg His Ser Pro Tyr Glu Trp Ser Asp Pro Ser Asp Pro  
 305 310 315 320  
 Leu Leu Val Ser Val Thr Gly Asn Pro Ser Ser Trp Pro Ser Pro  
 325 330 335  
 Thr Glu Pro Ser Ser Lys Ser Gly Asn Leu Arg His Leu His Ile Leu  
 340 345 350  
 Ile Gly Thr Ser Val Val Lys Ile Pro Phe Thr Ile Leu Leu Phe Phe  
 355 360 365  
 Leu Leu His Arg Trp Cys Ser Asn Lys Lys Asn Ala Ala Val Met Asp  
 370 375 380  
 Gln Glu Pro Ala Gly Asn Arg Val Asn Ser Glu Asp Ser Asp Glu Gln  
 385 390 395 400  
 Asp His Gln Glu Val Ser Tyr Pro Xaa Leu Glu His Cys Val Phe Thr  
 405 410 415  
 Gln Arg Lys Ile Thr Arg Pro Ser Gln Arg Pro Lys Thr Pro Pro Thr  
 420 425 430  
 Asp Thr Ser Met Tyr Ile Glu Leu Pro Asn Ala Glu Pro Arg Ser Lys

	435				440					445			
Val	Val	Phe	Cys	Pro	Arg	Ala	Pro	Gln	Ser	Gly	Leu	Glu	Gly
450						455					460		464

<210> 1265  
 <211> 1879  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(1879)  
 <223> X = any amino acid or stop code

<400> 1265

Leu	His	Asn	Leu	Arg	Glu	Arg	Tyr	Phe	Ser	Gly	Leu	Ile	Tyr	Thr	Tyr
1				5					10				15		
Ser	Gly	Leu	Phe	Cys	Val	Val	Val	Asn	Pro	Tyr	Lys	His	Leu	Pro	Ile
		20						25				30			
Tyr	Ser	Glu	Lys	Ile	Val	Asp	Met	Tyr	Lys	Gly	Lys	Lys	Arg	His	Glu
	35					40					45				
Met	Pro	Pro	His	Ile	Tyr	Ala	Ile	Ala	Asp	Thr	Ala	Tyr	Arg	Ser	Met
	50					55				60					
Leu	Gln	Asp	Arg	Glu	Asp	Gln	Ser	Ile	Leu	Cys	Thr	Gly	Glu	Ser	Gly
	65				70					75				80	
Ala	Gly	Lys	Thr	Glu	Asn	Thr	Lys	Lys	Val	Ile	Gln	Tyr	Leu	Ala	Val
			85					90					95		
Val	Ala	Ser	Ser	His	Lys	Gly	Lys	Lys	Asp	Thr	Ser	Ile	Thr	Gly	Glu
	100							105				110			
Leu	Glu	Lys	Gln	Leu	Leu	Gln	Ala	Asn	Pro	Ile	Leu	Glu	Ala	Phe	Gly
	115							120				125			
Asn	Ala	Lys	Thr	Val	Lys	Asn	Asp	Asn	Ser	Ser	Arg	Phe	Gly	Lys	Phe
	130					135					140				
Ile	Arg	Ile	Asn	Phe	Asp	Val	Thr	Gly	Tyr	Ile	Val	Gly	Ala	Asn	Ile
	145				150				155					160	
Glu	Thr	Tyr	Leu	Leu	Glu	Lys	Ser	Arg	Ala	Ile	Arg	Gln	Ala	Arg	Asp
		165						170					175		
Glu	Arg	Thr	Phe	His	Ile	Phe	Tyr	Tyr	Met	Ile	Ala	Gly	Ala	Lys	Glu
	180						185					190			
Lys	Met	Arg	Ser	Asp	Leu	Leu	Leu	Glu	Gly	Phe	Asn	Asn	Tyr	Thr	Phe
	195					200					205				
Leu	Ser	Asn	Gly	Phe	Val	Pro	Ile	Pro	Ala	Ala	Gln	Asp	Asp	Glu	Met
	210					215					220				
Phe	Gln	Glu	Thr	Val	Glu	Ala	Met	Ala	Ile	Met	Gly	Phe	Ser	Glu	Glu
	225				230									240	
Glu	Gln	Leu	Ser	Ile	Leu	Lys	Val	Val	Ser	Ser	Val	Leu	Gln	Leu	Gly
		245						250					255		
Asn	Ile	Val	Phe	Lys	Lys	Glu	Arg	Asn	Thr	Asp	Gln	Ala	Ser	Met	Pro
	260							265					270		
Asp	Asn	Thr	Ala	Ala	Gln	Lys	Val	Cys	His	Leu	Met	Gly	Ile	Asn	Val
	275					280						285			
Thr	Asp	Phe	Thr	Arg	Ser	Ile	Leu	Thr	Pro	Arg	Ile	Lys	Val	Gly	Arg
	290					295					300				
Asp	Val	Val	Gln	Lys	Ala	Gln	Thr	Lys	Glu	Gln	Ala	Asp	Phe	Ala	Val
	305				310					315				320	
Glu	Ala	Leu	Ala	Lys	Ala	Thr	Tyr	Glu	Arg	Leu	Phe	Arg	Trp	Ile	Leu
		325						330					335		

Thr Arg Val Asn Lys Ala Leu Asp Lys Thr His Arg Gln Gly Ala Ser  
 340 345 350  
 Phe Leu Gly Ile Leu Asp Ile Ala Gly Phe Glu Ile Phe Glu Val Asn  
 355 360 365  
 Ser Phe Glu Gln Leu Cys Ile Asn Tyr Thr Asn Glu Lys Leu Gln Gln  
 370 375 380  
 Leu Phe Asn His Thr Met Phe Ile Leu Glu Gln Glu Tyr Gln Arg  
 385 390 395 400  
 Glu Gly Ile Glu Trp Asn Phe Ile Asp Phe Gly Leu Asp Leu Gln Pro  
 405 410 415  
 Cys Ile Glu Leu Ile Glu Arg Pro Asn Asn Pro Pro Gly Val Leu Ala  
 420 425 430  
 Leu Leu Asp Glu Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe  
 435 440 445  
 Val Glu Lys Leu Cys Thr Glu Gln Gly Ser His Pro Lys Phe Gln Lys  
 450 455 460  
 Pro Lys Gln Leu Lys Asp Lys Thr Glu Phe Ser Ile Ile His Tyr Ala  
 465 470 475 480  
 Gly Lys Val Asp Tyr Asn Ala Ser Ala Trp Leu Thr Lys Asn Met Asp  
 485 490 495  
 Pro Leu Asn Asp Asn Val Thr Ser Leu Leu Asn Ala Ser Ser Asp Lys  
 500 505 510  
 Phe Val Ala Asp Leu Trp Lys Asp Val Asp Arg Ile Val Gly Leu Asp  
 515 520 525  
 Gln Met Ala Lys Met Thr Glu Ser Ser Leu Pro Ser Ala Ser Lys Thr  
 530 535 540  
 Lys Lys Gly Met Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu  
 545 550 555 560  
 Gly Lys Leu Met Thr Thr Leu Arg Asn Thr Thr Pro Asn Phe Val Arg  
 565 570 575  
 Cys Ile Ile Pro Asn His Glu Lys Arg Ser Gly Lys Leu Asp Ala Phe  
 580 585 590  
 Leu Val Leu Glu Gln Leu Arg Cys Asn Gly Val Leu Glu Gly Ile Arg  
 595 600 605  
 Ile Cys Arg Gln Gly Phe Pro Asn Arg Ile Val Phe Gln Glu Phe Arg  
 610 615 620  
 Gln Arg Tyr Glu Ile Leu Ala Ala Asn Ala Ile Pro Lys Gly Phe Met  
 625 630 635 640  
 Asp Gly Lys Gln Ala Cys Ile Leu Met Ile Lys Ala Leu Glu Leu Asp  
 645 650 655  
 Pro Asn Leu Tyr Arg Ile Gly Gln Ser Lys Ile Phe Phe Arg Thr Gly  
 660 665 670  
 Val Leu Ala His Leu Glu Glu Glu Arg Asp Leu Lys Ile Thr Asp Val  
 675 680 685  
 Ile Met Ala Phe Gln Ala Met Cys Arg Gly Tyr Leu Ala Arg Lys Ala  
 690 695 700  
 Phe Ala Lys Arg Gln Gln Gln Leu Thr Ala Met Lys Val Ile Gln Arg  
 705 710 715 720  
 Asn Cys Ala Ala Tyr Ile Lys Leu Arg Asn Trp Gln Trp Cys Arg Leu  
 725 730 735  
 Phe Thr Lys Val Xaa Pro Leu Leu Gln Val Thr Arg Gln Glu Xaa Glu  
 740 745 750  
 Met Gln Ala Lys Glu Asp Glu Leu Gln Lys Thr Lys Glu Arg Gln Gln  
 755 760 765  
 Lys Ala Glu Asn Glu Leu Lys Glu Leu Glu Gln Lys His Ser Gln Leu  
 770 775 780  
 Thr Glu Glu Lys Asn Leu Leu Gln Glu Gln Leu Gln Ala Glu Thr Glu  
 785 790 795 800  
 Leu Tyr Ala Glu Ala Glu Glu Met Arg Val Arg Leu Ala Ala Lys Lys  
 805 810 815  
 Gln Glu Leu Glu Glu Ile Leu His Glu Met Glu Ala Arg Leu Glu Glu  
 820 825 830  
 Glu Glu Asp Arg Gly Gln Gln Leu Gln Ala Glu Arg Lys Lys Met Ala  
 835 840 845

Gln Gln Met Leu Asp Leu Glu Glu Gln Leu Glu Glu Glu Ala Ala  
 850 855 860  
 Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys  
 865 870 875 880  
 Lys Leu Glu Asp Glu Ile Leu Val Met Asp Asp Gln Asn Asn Lys Leu  
 885 890 895  
 Ser Lys Glu Arg Lys Leu Leu Glu Glu Arg Ile Ser Asp Leu Thr Thr  
 900 905 910  
 Asn Leu Ala Glu Glu Glu Lys Ala Lys Asn Leu Thr Lys Leu Lys  
 915 920 925  
 Asn Lys His Glu Ser Met Ile Ser Glu Leu Glu Val Arg Leu Lys Lys  
 930 935 940  
 Glu Glu Lys Ser Arg Gln Glu Leu Glu Lys Leu Lys Arg Lys Leu Glu  
 945 950 955 960  
 Gly Asp Ala Ser Asp Phe His Glu Gln Ile Ala Asp Leu Gln Ala Gln  
 965 970 975  
 Ile Ala Glu Leu Lys Met Gln Leu Ala Lys Lys Glu Glu Glu Leu Gln  
 980 985 990  
 Ala Ala Leu Ala Arg Leu Asp Asp Glu Ile Ala Gln Lys Asn Asn Ala  
 995 1000 1005  
 Leu Lys Lys Ile Arg Glu Leu Glu Gly His Ile Ser Asp Leu Gln Glu  
 1010 1015 1020  
 Asp Leu Asp Ser Glu Arg Ala Ala Arg Asn Lys Ala Glu Lys Gln Lys  
 1025 1030 1035 1040  
 Arg Asp Leu Gly Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp  
 1045 1050 1055  
 Thr Leu Asp Ser Thr Ala Thr Gln Gln Glu Leu Arg Ala Lys Arg Glu  
 1060 1065 1070  
 Gln Glu Val Thr Val Leu Lys Arg Ala Leu Asn Glu Glu Thr Arg Ser  
 1075 1080 1085  
 His Glu Ala Gln Val Gln Glu Met Arg Gln Lys His Ala Gln Ala Val  
 1090 1095 1100  
 Gln Ser Leu Thr Glu Gln Leu Glu Gln Xaa Lys Arg Ala Lys Ala Asn  
 1105 1110 1115 1120  
 Leu Asp Lys Asn Lys Gln Thr Leu Glu Lys Glu Asn Thr Asp Leu Ala  
 1125 1130 1135  
 Gly Glu Leu Arg Val Leu Gly Gln Ala Lys Gln Glu Val Glu His Arg  
 1140 1145 1150  
 Met Lys Lys Leu Gln Ala Gln Val Gln Glu Leu Gln Ser Lys Cys Ser  
 1155 1160 1165  
 Asp Gly Glu Arg Ala Arg Ala Glu Leu Asn Asp Lys Val His Lys Leu  
 1170 1175 1180  
 Gln Asn Glu Val Glu Ser Val Thr Gly Met Leu Asn Glu Ala Glu Gly  
 1185 1190 1195 1200  
 Lys Ala Ile Lys Leu Ala Lys Asp Val Ala Ser Leu Ser Ser Gln Leu  
 1205 1210 1215  
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Glu Ser Arg Gln Lys Leu Asn  
 1220 1225 1230  
 Val Ser Thr Ser Leu Arg Gln Leu Glu Glu Glu Arg Asn Ser Leu Gln  
 1235 1240 1245  
 Asp Gln Leu Asp Glu Glu Met Glu Ala Lys Gln Asn Leu Glu Arg His  
 1250 1255 1260  
 Ile Ser Thr Leu Asn Ile Gln Leu Ser Asp Ser Lys Lys Lys Leu Gln  
 1265 1270 1275 1280  
 Asp Phe Ala Ser Thr Val Glu Ala Leu Glu Glu Gly Lys Lys Arg Phe  
 1285 1290 1295  
 Gln Lys Glu Ile Glu Asn Leu Thr Gln Gln Tyr Glu Glu Lys Ala Ala  
 1300 1305 1310  
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Asn Arg Leu Gln Gln Glu Leu  
 1315 1320 1325  
 Asp Asp Leu Val Val Asp Leu Asp Asn Gln Arg Gln Leu Val Ser Asn  
 1330 1335 1340  
 Leu Glu Lys Lys Gln Arg Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys  
 1345 1350 1355 1360

Asn Ile Ser Ser Lys Tyr Ala Asp Glu Arg Asp Arg Val Glu Ala Glu  
 1365 1370 1375  
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu  
 1380 1385 1390  
 Glu Ala Leu Glu Ala Lys Glu Glu Leu Glu Arg Thr Asn Lys Met Leu  
 1395 1400 1405  
 Lys Ala Glu Met Gly Arg Pro Gly Ser Ala Ser Lys Asp Asp Val Gly  
 1410 1415 1420  
 Gln Glu Leu Ser His Asp Leu Glu Lys Ser Lys Arg Ala Leu Gly Asp  
 1425 1430 1435 1440  
 Pro Arg Leu Glu Glu Met Lys Thr Gln Leu Glu Glu Leu Gly Arg Thr  
 1445 1450 1455  
 Glu Leu Ala Ser Pro Arg Arg Asp Ala Lys Leu Arg Leu Glu Val Asn  
 1460 1465 1470  
 Met Gln Ala Pro Ser Arg Ala Ser Phe Glu Arg Asp Leu Gln Ala Arg  
 1475 1480 1485  
 Thr Glu Gln Asn Glu Glu Ser Arg Arg His Leu Gln Arg Gln Leu His  
 1490 1495 1500  
 Glu Tyr Glu Thr Glu Leu Glu Asp Glu Arg Lys Gln Arg Ala Leu Ala  
 1505 1510 1515 1520  
 Ala Ala Ala Lys Ile Lys Leu Gly Trp Asp Pro Val Arg Thr Leu Asp  
 1525 1530 1535  
 Leu Xaa Ala Asp Ser Ala Ile Lys Gly Arg Gly Lys Ala Ile Lys  
 1540 1545 1550  
 Gln Leu Arg Lys Leu Gln Ala Gln Met Lys Asp Phe Gln Arg Glu Leu  
 1555 1560 1565  
 Glu Asp Ala Arg Ala Ser Arg Asp Glu Ile Phe Ala Thr Ala Lys Glu  
 1570 1575 1580  
 Asn Glu Lys Lys Ala Lys Ser Leu Glu Ala Asp Leu Met Gln Leu Gln  
 1585 1590 1595 1600  
 Glu Asp Leu Ala Ala Glu Glu Gly Arg Lys Gln Ala Asp Leu Glu  
 1605 1610 1615  
 Lys Glu Glu Leu Ala Glu Glu Leu Ala Ser Ser Leu Ser Gly Arg Asn  
 1620 1625 1630  
 Ala Leu Gln Asp Glu Lys Arg Arg Leu Glu Ala Arg Ile Ala Gln Leu  
 1635 1640 1645  
 Glu Glu Glu Leu Glu Glu Gln Gly Asn Met Glu Ala Met Ser Asp  
 1650 1655 1660  
 Arg Val Arg Lys Ala Thr Gln Gln Ala Glu Gln Leu Ser Asn Glu Leu  
 1665 1670 1675 1680  
 Ala Thr Glu Arg Ser Thr Ala Gln Lys Asn Glu Ser Ala Arg Gln Gln  
 1685 1690 1695  
 Leu Glu Arg Gln Asn Lys Glu Leu Arg Ser Lys Leu His Glu Met Glu  
 1700 1705 1710  
 Gly Ala Val Lys Ser Lys Phe Lys Ser Thr Ile Ala Ala Leu Glu Ala  
 1715 1720 1725  
 Lys Ile Ala Gln Leu Glu Glu Gln Val Glu Gln Glu Ala Arg Glu Lys  
 1730 1735 1740  
 Gln Ala Ala Thr Lys Ser Leu Lys Gln Lys Asp Lys Lys Leu Lys Glu  
 1745 1750 1755 1760  
 Ile Leu Leu Gln Val Glu Asp Glu Arg Lys Met Ala Glu Gln Tyr Lys  
 1765 1770 1775  
 Glu Gln Ala Glu Lys Gly Asn Ala Arg Val Lys Gln Leu Lys Arg Gln  
 1780 1785 1790  
 Leu Glu Glu Ala Glu Glu Glu Ser Gln Arg Ile Asn Ala Asn Arg Arg  
 1795 1800 1805  
 Lys Leu Gln Arg Glu Leu Asp Glu Ala Thr Glu Ser Asn Glu Ala Met  
 1810 1815 1820  
 Gly Arg Glu Val Asn Ala Leu Lys Ser Lys Leu Arg Arg Gly Asn Glu  
 1825 1830 1835 1840  
 Thr Ser Phe Val Pro Ser Arg Arg Ser Gly Gly Arg Arg Val Ile Glu  
 1845 1850 1855  
 Asn Ala Asp Gly Ser Glu Glu Glu Thr Asp Thr Arg Asp Ala Asp Phe  
 1860 1865 1870

Asn Gly Thr Lys Ala Ser Glu  
1875 1879

<210> 1266  
<211> 257  
<212> Amino acid  
<213> Homo sapiens

<400> 1266  
Lys Leu His Phe Ala Lys Ser Leu Asn Ser Glu Leu Ser Cys Ser Thr  
1 5 10 15  
Arg Glu Ala Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys  
20 25 30  
Thr Arg Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp  
35 40 45  
Trp Arg Val Met Ala Leu Ile Leu Leu Ile Leu Cys Val Gly Met Val  
50 55 60  
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn Tyr  
65 70 75 80  
Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln Leu Ala  
85 90 95  
Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu Lys Gly Thr  
100 105 110  
Phe Lys Gly His Lys Cys Ser Pro Cys Asp Thr Asn Trp Arg Tyr Tyr  
115 120 125  
Gly Asp Ser Cys Tyr Gly Phe Phe Arg His Asn Leu Thr Trp Glu Glu  
130 135 140  
Ser Lys Gln Tyr Cys Thr Asp Met Asn Ala Thr Leu Leu Lys Ile Asp  
145 150 155 160  
Asn Arg Asn Ile Val Glu Tyr Ile Lys Ala Arg Thr His Leu Ile Arg  
165 170 175  
Trp Val Gly Leu Ser Arg Gln Lys Ser Asn Glu Val Trp Lys Trp Glu  
180 185 190  
Asp Gly Ser Val Ile Ser Glu Asn Met Phe Glu Phe Leu Glu Asp Gly  
195 200 205  
Lys Gly Asn Met Asn Cys Ala Tyr Phe His Asn Gly Lys Met His Pro  
210 215 220  
Thr Phe Cys Glu Asn Lys His Tyr Leu Met Cys Glu Arg Lys Ala Gly  
225 230 235 240  
His Asp Pro Arg Trp Thr Gln Leu Pro Leu Met Pro Lys Arg Trp Thr  
245 250 255  
Gly  
257

<210> 1267  
<211> 208  
<212> Amino acid  
<213> Homo sapiens

<400> 1267  
Asn Gln Gly Leu Arg Asp Val Gly Leu Cys Arg Thr Cys Leu Val Asn  
1 5 10 15  
Lys Ile Phe Ala Ser Ser Ile Leu Gly Lys Ser His His His Ser Leu  
20 25 30

```

Val Ser Ile Asn Gln Gly His Asn Ala Pro Trp Lys Ala Ala Gly Ser
      35              40              45
Leu Pro Leu Lys Ala Ala Tyr Cys Gln Gly Phe Ser Pro Cys Asp Cys
      50              55              60
Leu Lys Tyr Gly Ser Trp Asp Glu Lys Asp Leu Met Val Pro Gln Pro
      65              70              75              80
Asp Thr His Lys Gly Ser Val Leu Arg Trp Ile Ser Lys Arg Gly Lys
      85              90              95
Pro Leu Ala Val Glu Met Glu Glu Gly His Cys Leu Cys Leu Pro Leu
      100             105             110
Gly Thr Glu Cys Leu Gly Val Lys Pro Ile Val His Leu Phe Asn Ser
      115             120             125
Glu Met Gly Glu Lys Arg Pro Val Ala Gly Ala Arg His Val Gly Ser
      130             135             140
Ser Ala Ala Leu Leu Phe Phe Thr Pro Leu Arg Cys Leu Gly Gly Glu
      145             150             155             160
Lys His Lys Ser Gly Leu Arg Ala Arg Pro Gly Ile Val Pro Ser Leu
      165             170             175
Glu Leu Asn Tyr Asp Ile Asp Ser Phe Ala His Met Phe Phe Ser Val
      180             185             190
Asp Leu Leu Leu Ile Ile Thr Leu Leu Ser Tyr Tyr Ile Pro Phe Cys
      195             200             205             208

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&lt;210&gt; 1268

&lt;211&gt; 158

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1268

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Met Trp Trp Arg Leu Ala Pro Thr Gln Ala Ile Trp Arg Ala Ala Gly
  1              5              10              15
Cys Cys Met Arg Phe Ser Arg Arg Arg Ser Thr Cys Cys Cys Leu Ala
      20              25              30
Ser Cys Ile Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala
      35              40              45
Ala Lys Arg Arg Gln Arg Arg Arg Ala Ala Pro Ser Ala Pro Pro
      50              55              60
Gln Ala Ala Arg Leu His Pro Pro Pro Lys Leu Arg Arg Phe Asp Gly
      65              70              75              80
Val Gln Asp Pro Ala Pro Tyr Ser Trp Ala Ile Asn Gly Lys Val Phe
      85              90              95
Asp Val Thr Gln Arg Pro Ala Asn Phe Leu Arg Gly Pro Arg Gly Pro
      100             105             110
Glu Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His
      115             120             125
Val Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp
      130             135             140
Glu Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp *
      145             150             155             157

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&lt;210&gt; 1269

&lt;211&gt; 178

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



&lt;400&gt; 1269

Gly Pro Arg Met Ala Lys Phe Leu Ser Gln Asp Gln Ile Asn Glu Tyr  
 1 5 10 15  
 Lys Glu Cys Phe Ser Leu Tyr Asp Lys Gln Gln Arg Gly Lys Ile Lys  
 20 25 30  
 Ala Thr Asp Leu Met Val Ala Met Arg Cys Leu Gly Ala Ser Pro Thr  
 35 40 45  
 Pro Gly Glu Val Gln Arg His Leu Gln Thr His Gly Ile Asp Gly Asn  
 50 55 60  
 Gly Glu Leu Asp Phe Ser Thr Phe Leu Thr Ile Met His Met Gln Ile  
 65 70 75 80  
 Lys Gln Glu Asp Pro Lys Lys Glu Ile Leu Leu Ala Met Leu Met Val  
 85 90 95  
 Asp Lys Glu Lys Lys Gly Tyr Val Met Ala Ser Asp Leu Arg Ser Lys  
 100 105 110  
 Leu Thr Ser Leu Gly Glu Lys Leu Thr His Lys Glu Val Asp Asp Leu  
 115 120 125  
 Phe Arg Glu Ala Asp Ile Glu Pro Asn Gly Lys Val Lys Tyr Asp Glu  
 130 135 140  
 Phe Ile His Lys Ile Thr Leu Leu Pro Gly Arg Asp Leu Leu Lys Glu  
 145 150 155 160  
 Glu Asn Gly Arg Ala Ser Pro Gly Pro Glu Asn Leu Glu Gln Leu Ile  
 165 170 175  
 Phe Leu  
 178

&lt;210&gt; 1270

&lt;211&gt; 457

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1270

Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala  
 1 5 10 15  
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr  
 20 25 30  
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu  
 35 40 45  
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu  
 50 55 60  
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln  
 65 70 75 80  
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala  
 85 90 95  
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg  
 100 105 110  
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly  
 115 120 125  
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro  
 130 135 140  
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu  
 145 150 155 160  
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln  
 165 170 175  
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln  
 180 185 190

Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala  
 195 200 205  
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp  
 210 215 220  
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln  
 225 230 235 240  
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln  
 245 250 255  
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp  
 260 265 270  
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe  
 275 280 285  
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly  
 290 295 300  
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg  
 305 310 315 320  
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu  
 325 330 335  
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser  
 340 345 350  
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val  
 355 360 365  
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His  
 370 375 380  
 Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp  
 385 390 395 400  
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg  
 405 410 415  
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Thr Lys  
 420 425 430  
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile  
 435 440 445  
 Gln Pro Met Ala Ala Glu Ala Ala Ser  
 450 455 457

&lt;210&gt; 1271

&lt;211&gt; 394

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1271

Ala Leu Asp Phe Gly Asp Ser Cys Gln Trp Pro Arg Pro Gln Asp Thr  
 1 5 10 15  
 Met Lys Gln Leu Pro Val Leu Glu Pro Gly Asp Lys Pro Arg Lys Ala  
 20 25 30  
 Thr Trp Tyr Thr Leu Thr Val Pro Gly Asp Ser Pro Cys Ala Arg Val  
 35 40 45  
 Gly His Ser Cys Ser Tyr Leu Pro Pro Val Gly Asn Ala Lys Arg Gly  
 50 55 60  
 Lys Val Phe Ile Val Gly Gly Ala Asn Pro Asn Arg Ser Phe Ser Asp  
 65 70 75 80  
 Val His Thr Met Asp Leu Gly Lys His Gln Trp Asp Leu Asp Thr Cys  
 85 90 95  
 Lys Gly Leu Leu Pro Arg Tyr Glu His Ala Ser Phe Ile Pro Ser Cys  
 100 105 110  
 Thr Pro Asp Arg Ile Trp Val Phe Gly Gly Ala Asn Gln Ser Gly Asn  
 115 120 125  
 Arg Asn Cys Leu Gln Val Leu Asn Pro Glu Thr Arg Thr Trp Thr Thr  
 130 135 140

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Pro Glu Val Thr Ser Pro Pro Pro Ser Pro Arg Thr Phe His Thr Ser
145      150      155      160
Ser Ala Ala Ile Gly Asn Gln Leu Tyr Val Phe Gly Gly Glu Arg
      165      170      175
Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn
180      185      190
Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro
195      200      205
Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His
210      215      220
Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp
225      230      235      240
Ile Ser Asp Met Lys Trp Gln Lys Leu Asn Pro Thr Gly Ala Ala Pro
      245      250      255
Ala Gly Cys Ala Ser His Thr Pro Ala Val Ala Met Gly Lys His Val
260      265      270
Tyr Ile Phe Gly Gly Met Thr Pro Ala Gly Ala Pro Gly Thr Gln Cys
275      280      285
Thr Gln Tyr His Thr Glu Glu Gln His Trp Asp Pro Cys Leu Lys Phe
290      295      300
Asp Thr Pro Ser Tyr Pro Pro Gly Thr Ile Gly Thr His Ser His Val
305      310      315      320
Val Ser Phe Pro Trp Pro Val Thr Cys Ala Ser Glu Lys Glu Asp Ser
      325      330      335
Asn Ser Leu Thr Leu Asn His Glu Ala Glu Lys Glu Asp Ser Ala Asp
340      345      350
Lys Val Met Ser His Ser Gly Asp Ser His Glu Glu Ser Gln Thr Ala
355      360      365
Thr Leu Leu Cys Leu Val Phe Gly Gly Met Asn Thr Glu Gly Glu Ile
370      375      380
Tyr Asp Asp Cys Ile Val Thr Val Val Asp
385      390      394

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&lt;210&gt; 1272

&lt;211&gt; 176

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1272

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Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
1      5      10      15
Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
      20      25      30
Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
      35      40      45
Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
      50      55      60
Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
      65      70      75      80
Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
      85      90      95
Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
      100      105      110
Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
      115      120      125
Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
      130      135      140
Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
145      150      155      160

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Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr  
 165 170 175 176

<210> 1273  
 <211> 457  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1273  
 Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala  
 1 5 10 15  
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr  
 20 25 30  
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu  
 35 40 45  
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu  
 50 55 60  
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln  
 65 70 75 80  
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala  
 85 90 95  
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg  
 100 105 110  
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly  
 115 120 125  
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro  
 130 135 140  
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu  
 145 150 155 160  
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln  
 165 170 175  
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln  
 180 185 190  
 Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala  
 195 200 205  
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp  
 210 215 220  
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln  
 225 230 235 240  
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln  
 245 250 255  
 Pro Gln Gly Ser Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp  
 260 265 270  
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe  
 275 280 285  
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly  
 290 295 300  
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg  
 305 310 315 320  
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu  
 325 330 335  
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser  
 340 345 350  
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val  
 355 360 365  
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His  
 370 375 380

Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp  
 385 390 395 400  
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg  
 405 410 415  
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys  
 420 425 430  
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile  
 435 440 445  
 Gln Pro Met Ala Ala Glu Ala Ala Ser  
 450 455 457

&lt;210&gt; 1274

&lt;211&gt; 359

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1274

Thr Leu Arg Ser Arg Pro Ala Gly Glu Ala Gly Tyr Leu Gly Trp Asp  
 1 5 10 15  
 Pro Glu Gln Ala Gly Glu Gly Ser Ala Leu Ser Arg Pro Gly Ala Met  
 20 25 30  
 Ala Ala Leu Met Thr Pro Gly Thr Gly Ala Pro Pro Ala Pro Gly Asp  
 35 40 45  
 Phe Ser Gly Glu Gly Ser Gln Gly Leu Pro Asp Pro Ser Pro Glu Pro  
 50 55 60  
 Lys Gln Leu Pro Glu Leu Ile Arg Met Lys Arg Asp Gly Gly Arg Leu  
 65 70 75 80  
 Ser Glu Ala Asp Ile Arg Gly Phe Val Ala Ala Val Val Asn Gly Ser  
 85 90 95  
 Ala Gln Gly Ala Gln Ile Gly Ala Trp Gly Gly Leu Gly Val Pro Asp  
 100 105 110  
 Pro Asp Trp Glu Val Ser Pro Arg Asp Phe Gly Ser Leu Gly Val Arg  
 115 120 125  
 Arg Cys Pro Thr Thr Ser Thr Gly Pro Arg Val Pro His Arg Cys Gly  
 130 135 140  
 Leu Pro Pro Ser Arg Val Pro Pro His Thr Arg Gly Met Leu Met Ala  
 145 150 155 160  
 Ile Arg Leu Arg Gly Met Asp Leu Glu Glu Thr Ser Val Leu Thr Gln  
 165 170 175  
 Ala Leu Ala Gln Ser Gly Gln Gln Leu Glu Trp Pro Glu Ala Trp Arg  
 180 185 190  
 Gln Gln Leu Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Lys Val  
 195 200 205  
 Ser Leu Val Leu Ala Pro Ala Leu Ala Ala Cys Gly Cys Lys Val Ile  
 210 215 220  
 Asn His Leu Leu Ser Arg Arg Glu Pro Ile Pro His Met Gln Gln Pro  
 225 230 235 240  
 Val His Pro Gln Ala Ala Pro Asn Leu Lys Pro Gly Pro Lys Pro Pro  
 245 250 255  
 Arg Pro Tyr Gln Gly Phe Ser Pro Pro Cys Ser Pro Ala Gln Phe Ser  
 260 265 270  
 Pro Pro Arg Ser Pro Ala Gln Arg Leu Gly Pro Leu Trp Leu Gln Thr  
 275 280 285  
 Arg Pro Leu Gly Ala Gly Lys Arg Ser Thr Asp Gly Ile Gln Thr Pro  
 290 295 300  
 Phe Pro Leu Gly Pro Gln Thr Ala Pro Pro Arg Glu Glu Leu Arg Thr  
 305 310 315 320  
 Ser Leu Pro Leu Pro Gln Ala Leu Phe Pro Gln Gly Gln Val Pro Thr  
 325 330 335

Ser Ser Pro Thr Asp Thr Ser Gln Pro Arg Lys Leu Pro Phe His Ser  
 340 345 350  
 Leu Thr Ser Trp Ala Pro Leu  
 355 359

<210> 1275  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> X = any amino acid or stop code

<400> 1275  
 Arg Ala Leu Arg Glu Leu Arg Glu Arg Val Thr His Gly Leu Ala Glu  
 1 5 10 15  
 Ala Gly Arg Asp Arg Glu Asp Val Ser Thr Glu Leu Tyr Arg Ala Leu  
 20 25 30  
 Glu Ala Val Arg Leu Gln Asn Ser Glu Gly Ser Cys Glu Pro Cys Pro  
 35 40 45  
 Thr Ser Trp Leu Pro Phe Gly Gly Ser Cys Tyr Tyr Phe Ser Val Pro  
 50 55 60  
 Lys Thr Thr Trp Ala Glu Ala Gln Gly His Cys Ala Asp Ala Ser Ala  
 65 70 75 80  
 His Leu Ala Ile Val Gly Gly Leu Gly Glu Gln Asp Phe Leu Ser Arg  
 85 90 95  
 Asp Thr Ser Ala Leu Glu Tyr Trp Ile Gly Arg Arg Ala Val Gln His  
 100 105 110  
 Leu Arg Lys Val Gln Gly Tyr Ser Trp Val Asp Gly Val Pro Leu Ser  
 115 120 125  
 Phe Arg Xaa Trp Glu Gly His Pro Gly Glu Thr Trp Gly Pro Gln Val  
 130 135 140  
 Arg Leu  
 145 146

<210> 1276  
 <211> 187  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1276  
 Arg Trp Pro Arg Ser Trp Pro Pro Arg Ala Gly Ala Ala Arg Gly Ala  
 1 5 10 15  
 Ala Glu Ala Ala Met Val Gly Ala Leu Cys Gly Cys Trp Phe Arg Leu  
 20 25 30  
 Gly Gly Ala Arg Pro Leu Ile Pro Leu Gly Pro Thr Val Val Gln Thr  
 35 40 45  
 Ser Met Ser Arg Ser Gln Val Ala Leu Leu Gly Leu Ser Leu Leu Leu  
 50 55 60  
 Met Leu Leu Leu Tyr Val Gly Leu Pro Gly Pro Pro Glu Gln Thr Ser  
 65 70 75 80  
 Cys Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Gly Leu Thr Pro



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305              310              315              320
Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu Arg Pro Lys Arg Thr Leu
              325              330              335
Arg Leu Val Leu Trp Thr Ala Glu Glu Gln Gly Gly Val Gly Ala Phe
              340              345              350
Gln Tyr Tyr Gln Leu His Lys Val Asn Ile Ser Asn Tyr Ser Leu Val
              355              360              365
Met Glu Ser Asp Ala Gly Thr Phe Leu Pro Thr Gly Leu Gln Phe Thr
              370              375              380
Gly Ser Glu Lys Ala Arg Ala Ile Met Glu Glu Val Met Ser Leu Leu
385              390              395              400
Gln Pro Leu Asn Ile Thr Gln Val Leu Ser His Gly Glu Gly Thr Asp
              405              410              415
Ile Asn Phe Trp Ile Gln Ala Gly Val Pro Gly Ala Ser Leu Leu Asp
              420              425              430
Asp Leu Tyr Lys Tyr Phe Phe Phe His His Ser His Gly Asp Thr Met
              435              440              445
Thr Val His Gly Ile Gln Thr Gln Met Asn Val Ala Ala Val Trp
450              455              460
Ala Val Val Ser Tyr Val Val Ala Asp Met Glu Glu Met Leu Pro Arg
465              470              475              480
Ser
481

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<210> 1278
<211> 428
<212> Amino acid
<213> Homo sapiens

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<400> 1278
Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg
1              5              10              15
Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly
              20              25              30
Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro
              35              40              45
Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro
              50              55              60
Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg
65              70              75              80
Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu
              85              90              95
Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala
              100              105              110
Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala
              115              120              125
Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg
              130              135              140
Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser
145              150              155              160
Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu
              165              170              175
Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu
              180              185              190
Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro
              195              200              205
Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val
210              215              220
Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro

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225          230          235          240
Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp
          245          250          255
Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His
          260          265          270
Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro
          275          280          285
Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met
          290          295          300
Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His
305          310          315          320
Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
          325          330          335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
          340          345          350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
          355          360          365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
370          375          380
Arg Lys Gly Glu His Leu Gly Glu Phe Asn Leu Glu Ser Thr Ile Val
385          390          395          400
Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys Thr Gly
          405          410          415
Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
          420          425          428

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<210> 1279  
 <211> 633  
 <212> Amino acid  
 <213> Homo sapiens

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<400> 1279
Leu Pro Glu Arg Ala Phe Gly Pro Arg Thr Pro Arg Ala Pro Arg Arg
1          5          10          15
Arg Arg Arg Arg Leu Leu Leu Ser Pro Pro Arg Pro Pro Pro Pro
          20          25          30
Leu Asp Arg Glu Pro Arg Ala Pro Gly Pro Trp Leu Cys Pro Ser Arg
          35          40          45
Ala Gly Thr Ala Gln Asp Pro Ala Arg Ile Arg Glu Arg Arg Gly Arg
          50          55          60
Val Ala Gly Gly Ala Ala Gly Pro Ala Met Glu Leu Arg Ala Arg Gly
65          70          75          80
Trp Trp Leu Leu Cys Ala Ala Ala Ala Leu Val Ala Cys Ala Arg Gly
          85          90          95
Asp Pro Ala Ser Lys Ser Arg Ser Cys Gly Glu Val Arg Gln Ile Tyr
          100          105          110
Gly Ala Lys Gly Phe Ser Ser Ser Asp Val Pro Gln Ala Glu Ile Ser
          115          120          125
Gly Glu His Leu Arg Ile Cys Pro Gln Gly Tyr Thr Cys Cys Thr Ser
130          135          140
Glu Met Glu Glu Asn Leu Ala Asn Arg Ser His Ala Glu Leu Glu Thr
145          150          155          160
Ala Leu Arg Asp Ser Ser Arg Val Leu Gln Ala Met Leu Ala Thr Gln
          165          170          175
Leu Arg Ser Phe Asp Asp His Phe Gln His Leu Leu Asn Asp Ser Glu
          180          185          190
Arg Thr Leu Gln Ala Thr Phe Pro Gly Ala Phe Gly Glu Leu Tyr Thr
195          200          205
Gln Asn Ala Arg Ala Phe Arg Asp Leu Tyr Ser Glu Leu Arg Leu Tyr

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210	215	220
Tyr Arg Gly Ala Asn Leu His Leu Glu Glu Thr Leu Ala Glu Phe Trp		
225	230	235
Ala Arg Leu Leu Glu Arg Leu Phe Lys Glu Leu His Pro Gln Leu Leu		240
	245	250
Leu Pro Asp Asp Tyr Leu Asp Cys Leu Gly Lys Gln Ala Glu Ala Leu		255
	260	265
Arg Pro Phe Gly Glu Ala Pro Arg Glu Leu Arg Leu Arg Ala Thr Arg		270
	275	280
Ala Phe Val Ala Ala Arg Ser Phe Val Gln Gly Leu Gly Val Ala Ser		285
	290	295
Asp Val Val Arg Lys Val Ala Gln Val Pro Leu Gly Pro Glu Cys Ser		300
	310	315
Arg Ala Val Ile Glu Ala Gly Ser Tyr Cys Ala Leu His Cys Val Gly		320
	325	330
Val Pro Gly Ala Arg Pro Cys Pro Asp Tyr Cys Arg Asn Val Leu Lys		335
	340	345
Gly Cys Leu Ala Asn Gln Ala Asp Leu Asp Ala Glu Trp Arg Asn Leu		350
	355	360
Leu Asp Ser Met Val Leu Ile Thr Asp Lys Phe Trp Gly Thr Ser Gly		365
	370	375
Val Glu Ser Val Ile Gly Ser Val His Thr Trp Leu Ala Glu Ala Ile		380
	385	390
Asn Ala Leu Gln Asp Asn Arg Asp Thr Leu Thr Ala Lys Val Ile Gln		395
	405	410
Gly Cys Gly Asn Pro Lys Val Asn Pro Gln Gly Pro Gly Pro Glu Glu		415
	420	425
Lys Arg Arg Arg Gly Lys Leu Ala Pro Arg Glu Arg Pro Pro Ser Gly		430
	435	440
Thr Leu Glu Lys Leu Val Ser Glu Ala Lys Ala Gln Leu Arg Asp Val		445
	450	455
Gln Asp Phe Trp Ile Ser Leu Pro Gly Thr Leu Cys Ser Glu Lys Met		460
	465	470
Ala Leu Ser Thr Ala Ser Asp Asp Arg Cys Trp Asn Gly Met Ala Arg		475
	485	490
Gly Arg Tyr Leu Pro Glu Val Met Gly Asp Gly Leu Ala Asn Gln Ile		495
	500	505
Asn Asn Pro Glu Val Glu Val Asp Ile Thr Lys Pro Asp Met Thr Ile		510
	515	520
Arg Gln Gln Ile Met Gln Leu Lys Ile Met Thr Asn Arg Leu Arg Ser		525
	530	535
Ala Tyr Asn Gly Asn Asp Val Asp Phe Gln Asp Ala Ser Asp Asp Gly		540
	545	550
Ser Gly Ser Gly Ser Gly Asp Gly Cys Leu Asp Asp Leu Cys Gly Arg		555
	565	570
Lys Val Ser Arg Lys Ser Ser Ser Ser Arg Thr Pro Leu Thr His Ala		575
	580	585
Leu Pro Gly Leu Ser Glu Gln Glu Gly Gln Lys Thr Ser Ala Ala Ser		590
	595	600
Cys Pro Gln Pro Pro Thr Phe Leu Leu Pro Leu Leu Phe Leu Ala		605
	610	615
Leu Thr Val Ala Arg Pro Arg Trp Arg		620
	625	630
		633

&lt;210&gt; 1280

&lt;211&gt; 133

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(133)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1280

Ala Thr Glu Leu Thr Arg Ala Gly Met Glu Ala Ser Ala Leu Thr Lys  
 1 5 10 15  
 Ser Ala Val Thr Ser Val Ala Lys Val Arg Val Ala Ser Gly Ser  
 20 25 30  
 Ala Val Val Leu Pro Leu Ala Arg Ile Ala Thr Ser Cys Asp Xaa Arg  
 35 40 45  
 Val Gly Gly Pro Val Gln Ala Val Pro Met Val Leu Ser Ala Met Gly  
 50 55 60  
 Leu Gln Leu Arg Ala Gly Ile Ala Ser Ser Ile Ala Ala Lys Met  
 65 70 75 80  
 Met Ser Ala Ala Ala Ile Ala Asn Gly Gly Gly Val Ser Pro Gly Gln  
 85 90 95  
 Pro Leu Trp Leu Leu Gln Ser Leu Gly Ala Thr Gly Leu Ser Gly  
 100 105 110  
 Leu Thr Lys Phe Ile Leu Gly Ser Ile Gly Ser Ala Ile Ala Ala Val  
 115 120 125  
 Ile Ala Arg Phe Tyr  
 130 133

&lt;210&gt; 1281

&lt;211&gt; 457

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1281

Thr Asn Gly Arg Asn Leu Leu His His Trp Ile Leu Gly Val Cys Gly  
 1 5 10 15  
 Met His Pro His His Gln Glu Thr Leu Lys Lys Asn Arg Val Val Leu  
 20 25 30  
 Ala Lys Gln Leu Leu Leu Ser Glu Leu Leu Glu His Leu Leu Glu Lys  
 35 40 45  
 Asp Ile Ile Thr Leu Glu Met Arg Glu Leu Ile Gln Ala Lys Val Gly  
 50 55 60  
 Ser Phe Ser Gln Asn Val Glu Leu Leu Asn Leu Leu Pro Lys Arg Gly  
 65 70 75 80  
 Pro Gln Ala Phe Asp Ala Phe Cys Glu Ala Leu Arg Glu Thr Lys Gln  
 85 90 95  
 Gly His Leu Glu Asp Met Leu Leu Thr Thr Leu Ser Gly Leu Gln His  
 100 105 110  
 Val Leu Pro Pro Leu Ser Cys Asp Tyr Asp Leu Ser Leu Pro Phe Pro  
 115 120 125  
 Val Cys Glu Ser Cys Pro Leu Tyr Lys Lys Leu Arg Leu Ser Thr Asp  
 130 135 140  
 Thr Val Glu His Ser Leu Asp Asn Lys Asp Gly Pro Val Cys Leu Gln  
 145 150 155 160  
 Val Lys Pro Cys Thr Pro Glu Phe Tyr Glu Thr His Phe Gln Leu Ala  
 165 170 175  
 Tyr Arg Leu Gln Ser Arg Pro Arg Gly Leu Ala Leu Val Leu Ser Asn  
 180 185 190  
 Val His Phe Thr Gly Glu Lys Glu Leu Glu Phe Arg Ser Gly Gly Asp  
 195 200 205  
 Val Asp His Ser Thr Leu Val Thr Leu Phe Lys Leu Leu Gly Tyr Asp  
 210 215 220

Val His Val Leu Cys Asp Gln Thr Ala Gln Glu Met Gln Glu Lys Leu  
 225 230 235 240  
 Gln Asn Phe Ala Gln Leu Pro Ala His Arg Val Thr Asp Ser Cys Ile  
 245 250 255  
 Val Ala Leu Leu Ser His Gly Val Glu Gly Ala Ile Tyr Gly Val Asp  
 260 265 270  
 Gly Lys Leu Leu Gln Leu Gln Glu Val Phe Gln Leu Phe Asp Asn Ala  
 275 280 285  
 Asn Cys Pro Ser Leu Gln Asn Lys Pro Lys Met Phe Phe Ile Gln Ala  
 290 295 300  
 Cys Arg Gly Gly Ala Ile Gly Ser Leu Gly His Leu Leu Leu Phe Thr  
 305 310 315 320  
 Ala Ala Thr Ala Ser Leu Ala Leu Glu Thr Asp Arg Gly Val Asp Gln  
 325 330 335  
 Gln Asp Gly Lys Asn His Ala Gly Ser Pro Gly Cys Glu Glu Ser Asp  
 340 345 350  
 Ala Gly Lys Glu Lys Leu Pro Lys Met Arg Leu Pro Thr Arg Ser Asp  
 355 360 365  
 Met Ile Cys Gly Tyr Ala Cys Leu Lys Gly Thr Ala Ala Met Arg Asn  
 370 375 380  
 Thr Lys Arg Gly Ser Trp Tyr Ile Glu Ala Leu Ala Gln Val Phe Ser  
 385 390 395 400  
 Glu Arg Ala Cys Asp Met His Val Ala Asp Met Leu Val Lys Val Asn  
 405 410 415  
 Ala Leu Ile Lys Asp Arg Glu Gly Tyr Ala Pro Gly Thr Glu Phe His  
 420 425 430  
 Arg Cys Lys Glu Met Ser Glu Tyr Cys Ser Thr Leu Cys Arg His Leu  
 435 440 445  
 Tyr Leu Phe Pro Gly His Pro Pro Thr  
 450 455 457

&lt;210&gt; 1282

&lt;211&gt; 195

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

Val Arg Gly Lys Glu Val Met Ala Ala Leu Cys Arg Thr Arg Ala Val  
 1 5 10 15  
 Ala Ala Glu Ser His Phe Leu Arg Val Phe Phe Arg Pro Phe  
 20 25 30  
 Arg Gly Val Gly Thr Glu Ser Gly Ser Glu Ser Gly Ser Asn Ala  
 35 40 45  
 Lys Glu Pro Lys Thr Arg Ala Gly Gly Phe Ala Ser Ala Leu Glu Arg  
 50 55 60  
 His Ser Glu Leu Leu Gln Lys Val Glu Pro Leu Gln Lys Gly Ser Pro  
 65 70 75 80  
 Lys Asn Val Glu Ser Phe Ala Ser Met Leu Arg His Ser Pro Leu Thr  
 85 90 95  
 Gln Met Gly Pro Ala Lys Asp Lys Leu Val Ile Gly Arg Ile Phe His  
 100 105 110  
 Ile Val Glu Asn Asp Leu Tyr Ile Asp Phe Gly Gly Lys Phe His Cys  
 115 120 125  
 Val Cys Arg Arg Pro Glu Val Asp Gly Glu Lys Tyr Gln Lys Gly Thr  
 130 135 140  
 Arg Val Arg Leu Arg Leu Asp Leu Glu Leu Thr Ser Arg Phe Leu  
 145 150 155 160  
 Gly Ala Thr Thr Asp Thr Thr Val Leu Glu Ala Asn Ala Val Leu Leu  
 165 170 175

Gly Ile Gln Glu Ser Lys Asp Ser Arg Ser Lys Glu Glu His Leu Glu  
 180 185 190  
 Lys Tyr Ile  
 195

<210> 1283  
 <211> 1499  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1283  
 Ile Pro Gly Ala Ser Pro Ala Pro Arg Arg Ala Ala Pro Leu Arg Leu  
 1 5 10 15  
 Gly Leu Arg Leu Ala Ser Gly Trp Ala Arg Ala Pro Gly Gly Val Ser  
 20 25 30  
 Pro Val Pro Gly Pro Gly Met Gly Gly Asp Ala Pro Thr Met Ala Arg  
 35 40 45  
 Ala Gln Ala Leu Val Leu Glu Leu Thr Phe Gln Leu Cys Ala Pro Glu  
 50 55 60  
 Thr Glu Thr Pro Glu Val Gly Cys Thr Phe Glu Glu Gly Ser Asp Pro  
 65 70 75 80  
 Ala Val Pro Cys Glu Tyr Ser Gln Ala Gln Tyr Asp Asp Phe Gln Trp  
 85 90 95  
 Glu Gln Val Arg Ile His Pro Gly Thr Arg Ala Pro Ala Asp Leu Pro  
 100 105 110  
 His Gly Ser Tyr Leu Met Val Asn Thr Ser Gln His Ala Pro Gly Gln  
 115 120 125  
 Arg Ala His Val Ile Phe Gln Ser Leu Ser Glu Asn Asp Thr His Cys  
 130 135 140  
 Val Gln Phe Ser Tyr Phe Leu Tyr Ser Arg Asp Gly His Ser Pro Gly  
 145 150 155 160  
 Thr Leu Gly Val Tyr Val Arg Val Asn Gly Gly Pro Leu Gly Ser Ala  
 165 170 175  
 Val Trp Asn Met Thr Gly Ser His Gly Arg Gln Trp His Gln Ala Glu  
 180 185 190  
 Leu Ala Val Ser Thr Phe Trp Pro Asn Glu Tyr Gln Val Leu Phe Glu  
 195 200 205  
 Ala Leu Ile Ser Pro Asp Arg Arg Gly Tyr Met Gly Leu Asp Asp Ile  
 210 215 220  
 Leu Leu Leu Ser Tyr Pro Cys Ala Lys Ala Pro His Phe Ser Arg Leu  
 225 230 235 240  
 Gly Asp Val Glu Val Asn Ala Gly Gln Asn Ala Ser Phe Gln Cys Met  
 245 250 255  
 Ala Ala Gly Arg Ala Ala Glu Ala Glu Arg Phe Leu Leu Gln Arg Gln  
 260 265 270  
 Ser Gly Ala Leu Val Pro Ala Ala Gly Val Arg His Ile Ser His Arg  
 275 280 285  
 Arg Phe Leu Ala Thr Phe Pro Leu Ala Ala Val Ser Arg Ala Glu Gln  
 290 295 300  
 Asp Leu Tyr Arg Cys Val Ser Gln Ala Pro Arg Gly Arg Gly Thr Ser  
 305 310 315 320  
 Leu Asn Phe Ala Glu Phe Met Val Lys Glu Pro Pro Thr Pro Ile Ala  
 325 330 335  
 Pro Pro Gln Leu Leu Arg Ala Gly Pro Thr Tyr Leu Ile Ile Gln Leu  
 340 345 350  
 Asn Thr Asn Ser Ile Ile Gly Asp Gly Pro Ile Val Arg Lys Glu Ile  
 355 360 365  
 Glu Tyr Arg Met Ala Arg Gly Pro Trp Ala Glu Val His Ala Val Ser  
 370 375 380

Leu Gln Thr Tyr Lys Leu Trp His Leu Asp Pro Asp Thr Glu Tyr Glu  
 385 390 395 400  
 Ile Ser Val Leu Leu Thr Arg Pro Gly Asp Gly Gly Thr Gly Arg Pro  
 405 410 415  
 Gly Pro Pro Leu Ile Ser Arg Thr Lys Cys Ala Glu Pro Met Arg Ala  
 420 425 430  
 Pro Lys Gly Leu Ala Phe Ala Glu Ile Gln Ala Arg Gln Leu Thr Leu  
 435 440 445  
 Gln Trp Glu Pro Leu Gly Tyr Asn Val Thr Arg Cys His Thr Tyr Thr  
 450 455 460  
 Val Ser Leu Cys Tyr His Tyr Thr Leu Gly Ser Ser His Asn Gln Thr  
 465 470 475 480  
 Ile Arg Glu Cys Val Lys Thr Glu Gln Gly Val Ser Arg Tyr Thr Met  
 485 490 495  
 Lys Asn Leu Leu Pro Tyr Arg Asn Val His Val Arg Leu Val Leu Thr  
 500 505 510  
 Asn Pro Glu Gly Arg Lys Glu Gly Lys Glu Val Thr Phe Gln Thr Asp  
 515 520 525  
 Glu Asp Val Pro Ser Gly Ile Ala Ala Glu Ser Leu Thr Phe Thr Pro  
 530 535 540  
 Leu Glu Asp Met Ile Phe Leu Lys Trp Glu Glu Pro Gln Glu Pro Asn  
 545 550 555 560  
 Gly Leu Ile Thr Gln Tyr Glu Ile Ser Tyr Gln Ser Ile Glu Ser Ser  
 565 570 575  
 Asp Pro Ala Val Asn Val Pro Gly Pro Arg Arg Thr Ile Ser Lys Leu  
 580 585 590  
 Arg Asn Glu Thr Tyr His Val Phe Ser Asn Leu His Pro Gly Thr Thr  
 595 600 605  
 Tyr Leu Phe Ser Val Arg Ala Arg Thr Gly Lys Gly Phe Gly Gln Ala  
 610 615 620  
 Ala Leu Thr Glu Ile Thr Thr Asn Ile Ser Ala Pro Ser Phe Asp Tyr  
 625 630 635 640  
 Ala Asp Met Pro Ser Pro Leu Gly Glu Ser Glu Asn Thr Ile Thr Val  
 645 650 655  
 Leu Leu Arg Pro Ala Gln Gly Arg Gly Ala Pro Ile Ser Val Tyr Gln  
 660 665 670  
 Val Ile Val Glu Glu Glu Gln Gly Ser Arg Arg Leu Arg Arg Glu Pro  
 675 680 685  
 Gly Gly Gln Asp Cys Phe Pro Val Pro Leu Thr Phe Glu Ala Ala Leu  
 690 695 700  
 Ala Arg Gly Leu Val Asp Tyr Phe Gly Ala Glu Leu Ala Ala Ser Ser  
 705 710 715 720  
 Leu Pro Glu Ala Met Pro Phe Thr Val Gly Asp Asn Lys Thr Tyr Arg  
 725 730 735  
 Gly Phe Trp Asn Pro Pro Leu Glu Pro Arg Lys Ala Tyr Leu Ile Tyr  
 740 745 750  
 Phe Gln Ala Ala Ser His Leu Lys Gly Glu Thr Arg Leu Asn Cys Ile  
 755 760 765  
 Arg Ile Ala Arg Lys Ala Ala Cys Lys Glu Ser Lys Arg Pro Leu Glu  
 770 775 780  
 Val Ser Gln Arg Ser Glu Glu Met Gly Leu Ile Leu Gly Ile Cys Ala  
 785 790 795 800  
 Gly Gly Leu Ala Val Leu Ile Leu Leu Glu Gly Ala Ile Ile Val Ile  
 805 810 815  
 Ile Arg Lys Gly Arg Asp His Tyr Ala Tyr Ser Tyr Tyr Pro Lys Pro  
 820 825 830  
 Val Asn Met Thr Lys Ala Thr Val Asn Tyr Arg Gln Glu Lys Thr His  
 835 840 845  
 Met Met Ser Ala Val Asp Arg Ser Phe Thr Asp Gln Ser Thr Leu Gln  
 850 855 860  
 Glu Asp Glu Arg Leu Gly Leu Ser Phe Met Asp Thr His Gly Tyr Ser  
 865 870 875 880  
 Thr Arg Gly Asp Gln Arg Ser Gly Gly Val Thr Glu Ala Ser Ser Leu  
 885 890 895

Leu Gly Gly Ser Pro Arg Arg Pro Cys Gly Arg Lys Gly Ser Pro Tyr  
 900 905 910  
 His Thr Gly Gln Leu His Pro Ala Val Arg Val Ala Asp Leu Leu Gln  
 915 920 925  
 His Ile Asn Gln Met Lys Thr Ala Glu Gly Tyr Gly Phe Lys Gln Glu  
 930 935 940  
 Tyr Glu Ser Phe Phe Glu Gly Trp Asp Ala Thr Lys Lys Lys Asp Lys  
 945 950 955 960  
 Val Lys Gly Ser Arg Gln Glu Pro Met Pro Ala Tyr Asp Arg His Arg  
 965 970 975  
 Val Lys Leu His Pro Met Leu Gly Asp Pro Asn Ala Asp Tyr Ile Asn  
 980 985 990  
 Ala Asn Tyr Ile Asp Ile Arg Ile Asn Arg Glu Gly Tyr His Arg Ser  
 995 1000 1005  
 Asn His Phe Ile Ala Thr Gln Gly Pro Lys Pro Glu Met Val Tyr Asp  
 1010 1015 1020  
 Phe Trp Arg Met Val Trp Gln Glu His Cys Ser Ser Ile Val Met Ile  
 1025 1030 1035 1040  
 Thr Lys Leu Val Glu Val Gly Arg Val Lys Cys Ser Arg Tyr Trp Pro  
 1045 1050 1055  
 Glu Asp Ser Asp Thr Tyr Gly Asp Ile Lys Ile Met Leu Val Lys Thr  
 1060 1065 1070  
 Glu Thr Leu Ala Glu Tyr Val Val Arg Thr Phe Ala Leu Glu Arg Arg  
 1075 1080 1085  
 Gly Tyr Ser Ala Arg His Glu Val Arg Gln Phe His Phe Thr Ala Trp  
 1090 1095 1100  
 Pro Glu His Gly Val Pro Tyr His Ala Thr Gly Leu Leu Ala Phe Ile  
 1105 1110 1115 1120  
 Arg Arg Val Lys Ala Ser Thr Pro Pro Asp Ala Gly Pro Ile Val Ile  
 1125 1130 1135  
 His Cys Ser Ala Gly Thr Gly Arg Thr Gly Cys Tyr Ile Val Leu Asp  
 1140 1145 1150  
 Val Met Leu Asp Met Ala Glu Cys Glu Gly Val Val Asp Ile Tyr Asn  
 1155 1160 1165  
 Cys Val Lys Thr Leu Cys Ser Arg Arg Val Asn Met Ile Gln Thr Glu  
 1170 1175 1180  
 Glu Gln Tyr Ile Phe Ile His Asp Ala Ile Leu Glu Ala Cys Leu Cys  
 1185 1190 1195 1200  
 Gly Glu Thr Thr Ile Pro Val Ser Glu Phe Lys Ala Thr Tyr Lys Glu  
 1205 1210 1215  
 Met Ile Arg Ile Asp Pro Gln Ser Asn Ser Ser Gln Leu Arg Glu Glu  
 1220 1225 1230  
 Phe Gln Thr Leu Asn Ser Val Thr Pro Pro Leu Asp Val Glu Glu Cys  
 1235 1240 1245  
 Ser Ile Ala Leu Leu Pro Arg Asn Arg Asp Lys Asn Arg Ser Met Asp  
 1250 1255 1260  
 Val Leu Pro Pro Asp Arg Cys Leu Pro Phe Leu Ile Ser Thr Asp Gly  
 1265 1270 1275 1280  
 Asp Ser Asn Asn Tyr Ile Asn Ala Ala Leu Thr Asp Ser Tyr Thr Arg  
 1285 1290 1295  
 Ser Ala Ala Phe Ile Val Thr Leu His Pro Leu Gln Ser Thr Thr Pro  
 1300 1305 1310  
 Asp Phe Trp Gly Leu Val Tyr Asp Tyr Gly Cys Thr Ser Ile Val Met  
 1315 1320 1325  
 Leu Asn Gln Leu Asn Gln Ser Asn Ser Ala Trp Pro Cys Leu Gln Tyr  
 1330 1335 1340  
 Trp Pro Glu Pro Gly Arg Gln Gln Tyr Gly Leu Met Glu Val Glu Phe  
 1345 1350 1355 1360  
 Met Ser Gly Thr Ala Asp Glu Asp Leu Val Ala Arg Val Phe Arg Val  
 1365 1370 1375  
 Gln Asn Ile Ser Arg Leu Gln Glu Gly His Leu Leu Val Arg His Phe  
 1380 1385 1390  
 Gln Phe Leu Arg Trp Ser Ala Tyr Arg Asp Thr Pro Asp Ser Lys Lys  
 1395 1400 1405

Ala Phe Leu His Leu Leu Ala Glu Gly Asp Lys Trp Gln Ala Glu Ser  
 1410 1415 1420  
 Gly Asp Gly Arg Thr Ile Val His Cys Leu Asn Gly Gly Arg Ser  
 1425 1430 1435 1440  
 Gly Thr Phe Cys Ala Cys Ala Thr Val Leu Glu Met Ile Arg Cys His  
 1445 1450 1455  
 Asn Leu Val Asp Val Phe Phe Ala Ala Lys Thr Leu Arg Asn Tyr Lys  
 1460 1465 1470  
 Pro Asn Met Val Glu Thr Met Asp Gln Tyr His Phe Cys Tyr Asp Val  
 1475 1480 1485  
 Ala Leu Glu Tyr Leu Glu Gly Leu Glu Ser Arg  
 1490 1495 1499

<210> 1284  
 <211> 430  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1284  
 Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg  
 1 5 10 15  
 Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly  
 20 25 30  
 Arg Lys Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro  
 35 40 45  
 Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro  
 50 55 60  
 Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg  
 65 70 75 80  
 Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu  
 85 90 95  
 Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala  
 100 105 110  
 Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala  
 115 120 125  
 Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg  
 130 135 140  
 Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser  
 145 150 155 160  
 Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu  
 165 170 175  
 Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu  
 180 185 190  
 Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro  
 195 200 205  
 Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val  
 210 215 220  
 Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro  
 225 230 235 240  
 Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp  
 245 250 255  
 Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His  
 260 265 270  
 Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro  
 275 280 285  
 Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met  
 290 295 300  
 Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His  
 305 310 315 320



Asn	Glu	Arg	Val	Val	Leu	Thr	Gly	Asp	Trp	Lys	His	Gly	Phe	Phe	Ser
				325					330					335	
Leu	Thr	Ala	Val	Gly	Ala	Thr	Asn	Trp	Gly	Ser	Ile	Arg	Ile	Tyr	Phe
			340					345					350		
Asp	Arg	Asp	Leu	His	Thr	Asn	Ser	Pro	Arg	His	Ser	Lys	Gly	Ser	Tyr
		355					360					365			
Asn	Asp	Phe	Ser	Phe	Val	Thr	His	Thr	Asn	Arg	Glu	Gly	Val	Pro	Met
		370					375				380				
Ala	Leu	Arg	Gly	Glu	His	Leu	Gly	Gln	Ser	Phe	Asn	Leu	Gly	Ser	Thr
		385			390					395					400
Ile	Val	Leu	Ile	Phe	Glu	Ala	Pro	Lys	Asp	Phe	Asn	Phe	Gln	Leu	Lys
				405					410					415	
Thr	Gly	Gln	Lys	Ile	Arg	Phe	Gly	Glu	Ala	Leu	Gly	Ser	Leu		
			420					425					430		

```
<210> 1285
<211> 957
<212> Amino acid
<213> Homo sapiens
```

400> 1285																	
Ala	Glu	Leu	Gly	Leu	5	Phe	Gly	Ser	Leu	Arg	Phe	Ser	Ser	Leu	Leu	His	
1										10					15		
Phe	Pro	Pro	Arg	Pro		Arg	Ser	Pro	Ala	Ser	Ala	Cys	Gly	Pro	Gly	Glu	
				20					25					30			
Gly	Arg	Met	Glu	Arg		Gly	Leu	Pro	Leu	Leu	Cys	Ala	Val	Leu	Ala	Leu	
				35				40					45				
Val	Leu	Ala	Pro	Ala		Gly	Ala	Phe	Arg	Asn	Asp	Lys	Cys	Gly	Asp	Thr	
	50						55					60					
Ile	Lys	Ile	Glu	Ser	Pro	Gly	Tyr	Leu	Thr	Ser	Pro	Gly	Tyr	Pro	His		
65					70					75					80		
Ser	Tyr	His	Pro	Ser	Glu	Lys	Cys	Glu	Trp	Leu	Ile	Gln	Ala	Pro	Asp		
				85					90					95			
Pro	Tyr	Gln	Arg	Ile	Met	Ile	Asn	Phe	Asn	Pro	His	Phe	Asp	Leu	Glu		
			100					105					110				
Asp	Arg	Asp	Cys	Lys	Tyr	Asp	Tyr	Val	Glu	Val	Phe	Asp	Gly	Glu	Asn		
			115				120					125					
Glu	Asn	Gly	His	Phe	Arg	Gly	Lys	Phe	Cys	Gly	Lys	Ile	Ala	Pro	Pro		
	130					135					140						
Pro	Val	Val	Ser	Ser	Gly	Pro	Phe	Leu	Phe	Ile	Lys	Phe	Val	Ser	Asp		
145					150				155					160			
Tyr	Glu	Thr	His	Gly	Ala	Gly	Phe	Ser	Ile	Arg	Tyr	Glu	Ile	Phe	Lys		
			165					170					175				
Arg	Gly	Pro	Glu	Cys	Ser	Gln	Asn	Tyr	Thr	Thr	Pro	Ser	Gly	Val	Ile		
			180					185					190				
Lys	Ser	Pro	Gly	Phe	Pro	Glu	Lys	Tyr	Pro	Asn	Ser	Leu	Glu	Cys	Thr		
			195				200					205					
Tyr	Ile	Val	Phe	Ala	Pro	Lys	Met	Ser	Glu	Ile	Ile	Leu	Asp	Phe	Glu		
	210					215					220						
Ser	Phe	Asp	Leu	Glu	Pro	Asp	Ser	Asn	Pro	Pro	Gly	Gly	Met	Phe	Cys		
225					230					235				240			
Arg	Tyr	Asp	Arg	Leu	Glu	Ile	Trp	Asp	Gly	Phe	Pro	Asp	Val	Gly	Pro		
			245					250					255				
His	Ile	Gly	Arg	Tyr	Cys	Gly	Gln	Lys	Thr	Pro	Gly	Arg	Ile	Arg	Ser		
			260				265					270					
Ser	Ser	Gly	Ile	Leu	Ser	Met	Val	Phe	Tyr	Thr	Asp	Ser	Ala	Ile	Ala		
	275					280					285						
Lys	Glu	Gly	Phe	Ser	Ala	Asn	Tyr	Ser	Val	Leu	Gln	Ser	Ser	Val	Ser		
	290					295					300						

Glu Asp Phe Lys Cys Met Glu Ala Leu Gly Met Glu Ser Gly Glu Ile  
 305 310 315 320  
 His Ser Asp Gln Ile Thr Ala Ser Ser Gln Tyr Ser Thr Asn Trp Ser  
 325 330 335  
 Ala Glu Arg Ser Arg Leu Asn Tyr Pro Glu Asn Gly Trp Thr Pro Gly  
 340 345 350  
 Glu Asp Ser Tyr Arg Glu Trp Ile Gln Val Asp Leu Gly Leu Leu Arg  
 355 360 365  
 Phe Val Thr Ala Val Gly Thr Gln Gly Ala Ile Ser Lys Glu Thr Lys  
 370 375 380  
 Lys Lys Tyr Tyr Val Lys Thr Tyr Lys Ile Asp Val Ser Ser Asn Gly  
 385 390 395 400  
 Glu Asp Trp Ile Thr Ile Lys Glu Gly Asn Lys Pro Val Leu Phe Gln  
 405 410 415  
 Gly Asn Thr Asn Pro Thr Asp Val Val Val Ala Val Phe Pro Lys Pro  
 420 425 430  
 Leu Ile Thr Arg Phe Val Arg Ile Lys Pro Ala Thr Trp Glu Thr Gly  
 435 440 445  
 Ile Ser Met Arg Phe Glu Val Tyr Gly Cys Lys Ile Thr Asp Tyr Pro  
 450 455 460  
 Cys Ser Gly Met Leu Gly Met Val Ser Gly Leu Ile Ser Asp Ser Gln  
 465 470 475 480  
 Ile Thr Ser Ser Asn Gln Gly Asp Arg Asn Trp Met Pro Glu Asn Ile  
 485 490 495  
 Arg Leu Val Thr Ser Arg Ser Gly Trp Ala Leu Pro Pro Ala Pro His  
 500 505 510  
 Ser Tyr Ile Asn Glu Trp Leu Gln Ile Asp Leu Gly Glu Lys Ile  
 515 520 525  
 Val Arg Gly Ile Ile Ile Gln Gly Gly Lys His Arg Glu Asn Lys Val  
 530 535 540  
 Phe Met Arg Lys Phe Lys Ile Gly Tyr Ser Asn Asn Gly Ser Asp Trp  
 545 550 555 560  
 Lys Met Ile Met Asp Asp Ser Lys Arg Lys Ala Lys Ser Phe Glu Gly  
 565 570 575  
 Asn Asn Asn Tyr Asp Thr Pro Glu Leu Arg Thr Phe Pro Ala Leu Ser  
 580 585 590  
 Thr Arg Phe Ile Arg Ile Tyr Pro Glu Arg Ala Thr His Gly Gly Leu  
 595 600 605  
 Gly Leu Arg Met Glu Leu Leu Gly Cys Glu Val Glu Ala Pro Thr Ala  
 610 615 620  
 Gly Pro Thr Thr Pro Asn Gly Asn Leu Val Asp Glu Cys Asp Asp Asp  
 625 630 635 640  
 Gln Ala Asn Cys His Ser Gly Thr Gly Asp Asp Phe Gln Leu Thr Gly  
 645 650 655  
 Gly Thr Thr Val Leu Ala Thr Glu Lys Pro Thr Val Ile Asp Ser Thr  
 660 665 670  
 Ile Gln Ser Glu Phe Pro Thr Tyr Gly Phe Asn Cys Glu Phe Gly Trp  
 675 680 685  
 Gly Ser His Lys Thr Phe Cys His Trp Glu His Asp Asn His Val Gln  
 690 695 700  
 Leu Lys Trp Ser Val Leu Thr Ser Lys Thr Gly Pro Ile Gln Asp His  
 705 710 715 720  
 Thr Gly Asp Gly Asn Phe Ile Tyr Ser Gln Ala Asp Glu Asn Gln Lys  
 725 730 735  
 Gly Lys Val Ala Arg Leu Val Ser Pro Val Val Tyr Ser Gln Asn Ser  
 740 745 750  
 Ala His Cys Met Thr Phe Trp Tyr His Met Ser Gly Ser His Val Gly  
 755 760 765  
 Thr Leu Arg Val Lys Leu Arg Tyr Gln Lys Pro Glu Glu Tyr Asp Gln  
 770 775 780  
 Leu Val Trp Met Ala Ile Gly His Gln Gly Asp His Trp Lys Glu Gly  
 785 790 795 800  
 Arg Val Leu Leu His Lys Ser Leu Lys Leu Tyr Gln Val Ile Phe Glu  
 805 810 815

Gly Glu Ile Gly Lys Gly Asn Leu Gly Gly Ile Ala Val Asp Asp Ile  
                   820                  825                  830  
 Ser Ile Asn Asn His Ile Ser Gln Glu Asp Cys Ala Lys Pro Ala Asp  
                   835                  840                  845  
 Leu Asp Lys Lys Asn Pro Glu Ile Lys Ile Asp Glu Thr Gly Ser Thr  
                   850                  855                  860  
 Pro Gly Tyr Glu Gly Glu Gly Glu Gly Asp Lys Asn Ile Ser Arg Lys  
                   865                  870                  875                  880  
 Pro Gly Asn Val Leu Lys Thr Leu Glu Pro Ile Leu Ile Thr Ile Ile  
                   885                  890                  895  
 Ala Met Ser Ala Leu Gly Val Leu Leu Gly Ala Val Cys Gly Val Val  
                   900                  905                  910  
 Leu Tyr Cys Ala Cys Trp His Asn Gly Met Ser Glu Arg Asn Leu Ser  
                   915                  920                  925  
 Ala Leu Glu Asn Tyr Asn Phe Glu Leu Val Asp Gly Val Lys Leu Lys  
                   930                  935                  940  
 Lys Asp Lys Leu Asn Thr Gln Ser Thr Tyr Ser Glu Ala  
                   945                  950                  955                  957

&lt;210&gt; 1286

&lt;211&gt; 173

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)...(173)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1286

His Glu Gly Ser Ala Leu Thr Trp Ala Ser His Tyr Gln Glu Arg Leu  
   1                  5                  10                  15  
 Asn Ser Gly Gln Ser Cys Leu Asn Glu Trp Thr Ala Met Ala Asp Leu  
                   20                  25                  30  
 Glu Ser Leu Arg Pro Pro Ser Ala Glu Pro Gly Gly Ser Val Cys Gly  
                   35                  40                  45  
 Gly Glu Gly Leu Gly Gly Glu Gly Arg Ile Met Gln Trp Gly Ala  
                   50                  55                  60  
 Trp Trp Arg Gly Glu Arg Ala Pro Xaa Leu Arg Gly Ser Ala Pro Arg  
                   65                  70                  75                  80  
 Ser Ser Glu Gln Glu Gln Met Glu Gln Ala Ile Arg Ala Glu Leu Trp  
                   85                  90                  95  
 Lys Val Leu Asp Val Ser Asp Leu Glu Ser Val Thr Ser Lys Glu Ile  
                   100                  105                  110  
 Arg Gln Ala Leu Glu Leu Arg Leu Gly Leu Pro Leu Gln Pro Val Pro  
                   115                  120                  125  
 Xaa Leu His Arg Gln Pro Asp Ala Ala Ala Gly Gly Thr Ala Gly Pro  
                   130                  135                  140  
 Ser Leu Pro His Leu Pro Pro Pro Leu Pro Gly Leu Arg Val Glu Arg  
                   145                  150                  155                  160  
 Ser Lys Pro Gly Gly Ala Ala Glu Glu Gln Val Gly Leu  
                   165                  170                  173

&lt;210&gt; 1287

&lt;211&gt; 181

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1287

```

Met Ala Ala Leu Asp Leu Arg Ala Glu Leu Asp Ser Leu Val Leu Gln
 1           5           10           15
Leu Leu Gly Asp Leu Glu Glu Leu Glu Gly Lys Arg Thr Val Leu Asn
           20           25           30
Ala Arg Val Glu Glu Gly Trp Leu Ser Leu Ala Lys Ala Arg Tyr Ala
           35           40           45
Met Gly Ala Lys Ser Val Gly Pro Leu Gln Tyr Ala Ser His Met Glu
           50           55           60
Pro Gln Val Cys Leu His Ala Ser Glu Ala Gln Glu Gly Leu Gln Lys
           65           70           75           80
Phe Lys Val Val Arg Ala Gly Val His Ala Pro Glu Glu Val Gly Pro
           85           90           95
Arg Glu Ala Gly Leu Arg Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu
           100          105          110
Pro Glu Ser Ser Glu Ala Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile
           115          120          125
Leu Val Pro His Ser Leu Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly
           130          135          140
Leu Gln Leu Ala Ala Asp Ile Ala Ser Leu Gln Asn Arg Ile Asp Trp
           145          150          155          160
Gly Arg Ser Gln Leu Arg Gly Leu Gln Glu Lys Leu Lys Gln Leu Glu
           165          170          175
Pro Gly Ala Ala *
           180

```

&lt;210&gt; 1288

&lt;211&gt; 216

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1288

```

His Ser Asp Val Gly Ala Ala Thr Ala Val Leu Pro Leu Leu Thr Ala
 1           5           10           15
Val Leu Gly Val Thr Val Val Thr Arg Arg Asp Thr Glu Gly Pro Gly
           20           25           30
Arg Ala Ala Leu Val His Leu Thr Gly Ser Pro Arg Gln Lys Val Gly
           35           40           45
Thr Ser Gly Arg Glu Gly Leu Pro Gly Leu Gly Ala Ser Cys Ala Glu
           50           55           60
Ser Glu Leu Glu Arg Glu Thr Gln Glu Pro Arg Ser Arg Gly Arg Cys
           65           70           75           80
Ile Phe Gly Ala Ala Arg Trp Arg Gln Val Pro Leu Ala Ser Pro Gln
           85           90           95
Arg Pro Phe Leu Leu Ser Pro Gly Pro Arg Leu His Arg Met Gly Leu
           100          105          110
Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly Cys Cys Ala
           115          120          125
Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg Arg Pro Glu
           130          135          140
Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg Ala Arg Leu
           145          150          155          160
Gln Gly Ser Ala Thr Ala Ala Glu Ala Val Ser Ala Lys Leu Ser Arg
           165          170          175
Gly Pro Gly Trp Gly Pro Gln Gly Thr Asp Gln Pro Ser Ser Pro Pro

```

```

                180                185                190
Val Pro Thr Glu Ala Asp Pro Pro Leu Leu Pro Gln Gln Val Gly His
                195                200                205
Gln Thr Ala Arg Ala Ala Pro Gly
                210                215 216

```

```

<210> 1289
<211> 148
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(148)
<223> X = any amino acid or stop code

```

```

<400> 1289
Leu Thr Gly Pro Gly Gln Arg Leu Ala Gly Thr Thr Glu Gly Pro Arg
 1          5          10          15
Arg Cys Arg Gly Ser Ser Gln Ala Pro Thr Pro Trp Lys Leu Val
          20          25          30
Asp Thr Arg Leu Cys Ala Ala Ala Pro Trp Leu Ala Ser Arg Ala Pro
          35          40          45
Gly His Tyr Ser Gln Met Leu Leu Val Asn Xaa Pro Cys Arg Lys Asp
          50          55          60
Trp Leu Val Ser Lys Trp Met Arg Thr Pro Val Cys Gly Gln Ser Pro
          65          70          75          80
Ala Met Thr Asp Arg Pro Arg Ser Glu Ala Gly Arg Asp His Arg Arg
          85          90          95
Ala Lys Ala Leu Pro Gly Leu Ile Pro Gly Ser Asn Pro Asn Leu Glu
          100          105          110
Ala Cys Gly His Gln Ala Leu Cys Ser Ser Ser Val Ala Ser Val Gln
          115          120          125
Gly Pro Trp Pro Leu Leu Pro Asn Ala Ser Ser Pro Pro Thr Pro Gly
          130          135          140
Gln Pro Gln Pro
          145          148

```

```

<210> 1290
<211> 170
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(170)
<223> X = any amino acid or stop code

```

```

<400> 1290
Lys His Arg Leu Cys Ser Leu Glu Gln Leu Met Thr Leu Ile Ser Ala
 1          5          10          15
Ala Arg Glu Tyr Glu Ile Glu Phe Ile Tyr Ala Ile Ser Pro Gly Leu
          20          25          30
Asp Ile Thr Phe Ser Asn Pro Lys Glu Val Ser Thr Leu Lys Arg Lys

```

```

      35              40              45
Leu Asp Gln Val Ser Gln Phe Gly Cys Arg Ser Phe Ala Leu Leu Phe
   50              55              60
Asp Asp Ile Asp His Asn Met Cys Ala Ala Asp Lys Glu Val Phe Ser
   65              70              75              80
Ser Phe Ala His Ala Gln Val Ser Ile Thr Asn Glu Ile Tyr Gln Tyr
   85              90              95
Leu Gly Glu Pro Glu Thr Phe Leu Phe Cys Pro Thr Glu Tyr Cys Ile
   100             105             110
Xaa Trp Leu Tyr Ile Xaa Leu Val Phe Leu Glu Tyr Ile Thr Tyr Lys
   115             120             125
Gly Pro Trp Ala Pro Phe Ser Leu His Phe Pro Pro Leu Val Cys
   130             135             140
Lys Ser Arg Asn Leu Phe Leu Glu Asp Ile Phe Gln Asp Pro Lys Leu
   145             150             155             160
Glu Lys Phe Xaa Glu Leu Ile Asn Asp Asn
               165               170

```

<210> 1291  
 <211> 98  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1291
Thr Ser Ala Leu Thr Gln Gly Leu Glu Arg Ile Pro Asp Gln Leu Gly
   1              5              10              15
Tyr Leu Val Leu Ser Glu Gly Ala Val Leu Ala Ser Ser Gly Asp Leu
   20              25              30
Glu Asn Asp Glu Gln Ala Ala Ser Ala Ile Ser Glu Leu Val Ser Thr
   35              40              45
Ala Cys Gly Phe Arg Leu His Arg Gly Met Asn Val Pro Phe Lys Arg
   50              55              60
Leu Ser Val Val Phe Gly Glu His Thr Leu Leu Val Thr Val Ser Gly
   65              70              75              80
Gln Arg Val Phe Val Val Lys Arg Gln Asn Arg Gly Arg Glu Pro Ile
   85              90              95
Asp Val
   98

```

<210> 1292  
 <211> 142  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1292
Ala Lys Arg Ala Glu Arg Thr Ser Arg Leu Gln Gly Leu Gln His Pro
   1              5              10              15
Ser Pro Pro Tyr Pro Pro Ala Thr Leu Gly Val Thr Pro Gly Gln Asp
   20              25              30
Arg Thr Leu Gln Leu Gln His Gln Cys Pro Ala Gly Arg Lys Ser Arg
   35              40              45
Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser Pro Glu Asp Arg Val Glu
   50              55              60
Asp Ala Leu Pro Pro Ser Lys Ala Pro Ser Arg Thr Arg Arg Ala Lys

```

```

65              70              75              80
Arg Asp Leu Pro Lys Arg Thr Ala Thr Gln Arg Pro Glu Gly Thr Ser
      85              90              95
Leu Gln Gln Asp Pro Glu Ala Pro Thr Val Pro Lys Lys Gly Arg Arg
      100             105             110
Lys Gly Arg Gln Ala Ala Ser Gly His Cys Arg Pro Arg Lys Val Lys
      115             120             125
Ala Asp Ile Pro Ser Leu Glu Pro Glu Gly Thr Ser Ala Ser
      130             135             140             142

```

```

<210> 1293
<211> 89
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(89)
<223> X = any amino acid or stop code

```

```

<400> 1293
Arg Lys Ser Ser Trp Leu Gly Ala Val Ala His Ala Cys Asn Pro Ser
 1          5          10          15
Ser Leu Gly Gly Pro Gly Arg Gln Ile Thr Arg Ser Gly Val Arg Asp
      20          25          30
Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Thr
      35          40          45
Leu Ala Gly Arg Gly Gly Ala Cys Leu Xaa Ser His Ile Leu Arg Arg
      50          55          60
Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly Cys Ser Glu
65          70          75          80
Leu Arg Ser Arg His Cys Ala Pro Ala
      85          89

```

```

<210> 1294
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1294
Ala Trp Asn Ser Ala Arg Gly Ala Val Ser Pro Leu Trp Val Pro Gly
 1          5          10          15
Cys Phe Leu Thr Leu Ser Val Thr Trp Ile Gly Ala Ala Pro Leu Ile
      20          25          30
Leu Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His Ser Gln Pro
      35          40          45
Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val Cys Gly Gly Val
      50          55          60
Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys Ile Arg Lys
65          70          75          80

```

<210> 1295  
 <211> 281  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1295  
 Ala Glu Met Ala Asp Asp Leu Gly Asp Glu Trp Trp Glu Asn Gln Pro  
 1 5 10 15  
 Thr Gly Ala Gly Ser Ser Pro Glu Ala Ser Asp Gly Glu Gly Glu Gly  
 20 25 30  
 Asp Thr Glu Val Met Gln Gln Glu Thr Val Pro Val Pro Val Pro Ser  
 35 40 45  
 Glu Lys Thr Lys Gln Pro Lys Glu Cys Phe Leu Ile Gln Pro Lys Glu  
 50 55 60  
 Arg Lys Glu Asn Thr Thr Lys Thr Arg Lys Arg Arg Lys Lys Lys Ile  
 65 70 75  
 Thr Asp Val Leu Ala Lys Ser Glu Pro Lys Pro Gly Leu Pro Glu Asp  
 80 85 90 95  
 Leu Gln Lys Leu Met Lys Asp Tyr Tyr Ser Ser Arg Arg Leu Val Ile  
 100 105 110  
 Glu Leu Glu Glu Leu Asn Leu Pro Asp Ser Cys Phe Leu Lys Ala Asn  
 115 120 125  
 Asp Leu Thr His Ser Leu Ser Ser Tyr Leu Lys Glu Ile Cys Pro Lys  
 130 135 140  
 Trp Val Lys Leu Arg Lys Asn His Ser Glu Lys Lys Ser Val Leu Met  
 145 150 155 160  
 Leu Ile Ile Cys Ser Ser Ala Val Arg Ala Leu Glu Leu Ile Arg Ser  
 165 170 175  
 Met Thr Ala Phe Arg Gly Asp Gly Lys Val Ile Lys Leu Phe Ala Lys  
 180 185 190  
 His Ile Lys Val Gln Ala Gln Val Lys Leu Leu Glu Lys Arg Val Val  
 195 200 205  
 His Leu Gly Val Gly Thr Pro Gly Arg Ile Lys Glu Leu Val Lys Gln  
 210 215 220  
 Gly Gly Leu Asn Leu Ser Pro Leu Lys Phe Leu Val Phe Asp Trp Asn  
 225 230 235 240  
 Trp Arg Asp Gln Lys Leu Arg Arg Met Met Asp Ile Pro Glu Ile Arg  
 245 250 255  
 Lys Glu Val Phe Glu Leu Leu Glu Met Gly Val Leu Ser Leu Cys Lys  
 260 265 270  
 Ser Glu Ser Leu Lys Leu Gly Leu Phe  
 275 280 281

<210> 1296  
 <211> 213  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1296  
 Arg Pro Gly Thr Ala Ile Trp Val Val Glu Cys Glu His Gly Arg Pro  
 1 5 10 15  
 Ile Ala Glu Ser Glu Gly Gln Glu Gly Arg Gly His Ser Pro Pro Gly  
 20 25 30  
 Pro Cys Ser Val Ala Gly Phe Leu Arg Gly Arg Leu Gly Arg Asn Leu  
 35 40 45



Glu Ile Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala  
     50                    55                    60  
 Leu Cys Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys  
     65                    70                    75                    80  
 Ala Ala Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly  
                     85                    90                    95  
 Thr Ala Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly  
                     100                    105                    110  
 Phe Gly Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln  
                     115                    120                    125  
 Ser Asn Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu  
                     130                    135                    140  
 Gly Cys Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser  
     145                    150                    155                    160  
 Leu Val Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe  
                     165                    170                    175  
 Val Leu Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn  
                     180                    185                    190  
 Val Ser Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly  
                     195                    200                    205  
 Lys Ala Lys Arg His  
     210                    213

<210> 1297  
 <211> 353  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1297  
 Glu Ser Pro Ala Pro Pro Ala Phe Arg Pro Ala Met Ala Ala Val Ala  
     1                    5                    10                    15  
 Leu Met Pro Pro Pro Leu Leu Leu Leu Leu Leu Leu Ala Ser Pro Pro  
                     20                    25                    30  
 Ala Ala Ser Ala Pro Ser Ala Arg Asp Pro Phe Ala Pro Gln Leu Gly  
                     35                    40                    45  
 Asp Thr Gln Asn Cys Gln Leu Arg Cys Arg Asp Arg Asp Leu Gly Pro  
                     50                    55                    60  
 Gln Pro Ser Gln Ala Gly Leu Glu Gly Ala Ser Glu Ser Pro Tyr Asp  
     65                    70                    75                    80  
 Arg Ala Val Leu Ile Ser Ala Cys Glu Arg Gly Cys Arg Leu Phe Ser  
                     85                    90                    95  
 Ile Cys Arg Phe Val Ala Arg Ser Ser Lys Pro Asn Ala Thr Gln Thr  
                     100                    105                    110  
 Glu Cys Glu Ala Ala Cys Val Glu Ala Tyr Val Lys Glu Ala Glu Gln  
                     115                    120                    125  
 Gln Ala Cys Ser His Gly Cys Trp Ser Gln Pro Ala Glu Pro Glu Pro  
                     130                    135                    140  
 Glu Gln Lys Arg Lys Val Leu Glu Ala Pro Ser Gly Ala Leu Ser Leu  
     145                    150                    155                    160  
 Leu Asp Leu Phe Ser Thr Leu Cys Asn Asp Leu Val Asn Ser Ala Gln  
                     165                    170                    175  
 Gly Phe Val Ser Ser Thr Trp Thr Tyr Tyr Leu Gln Thr Asp Asn Gly  
                     180                    185                    190  
 Lys Val Val Val Phe Gln Thr Gln Pro Ile Val Glu Ser Leu Gly Phe  
                     195                    200                    205  
 Gln Gly Gly Arg Leu Gln Arg Val Glu Val Thr Trp Arg Gly Ser His  
                     210                    215                    220  
 Pro Glu Ala Leu Glu Val His Val Asp Pro Val Gly Pro Leu Asp Lys  
     225                    230                    235                    240

Val	Arg	Lys	Ala	Lys	Ile	Arg	Val	Lys	Thr	Ser	Ser	Lys	Ala	Lys	Val
				245					250					255	
Glu	Ser	Glu	Glu	Pro	Gln	Asp	Asn	Asp	Phe	Leu	Ser	Cys	Met	Ser	Arg
				260				265					270		
Arg	Ser	Gly	Leu	Pro	Arg	Trp	Ile	Leu	Ala	Cys	Cys	Leu	Phe	Leu	Ser
		275					280					285			
Val	Leu	Val	Met	Leu	Trp	Leu	Ser	Cys	Ser	Thr	Leu	Val	Thr	Ala	Pro
		290				295					300				
Gly	Gln	His	Leu	Lys	Phe	Gln	Pro	Leu	Thr	Leu	Glu	Gln	His	Lys	Gly
					310					315				320	
Phe	Met	Met	Glu	Pro	Asp	Trp	Pro	Leu	Tyr	Pro	Pro	Pro	Ser	His	Ala
				325				330						335	
Cys	Glu	Asp	Ser	Leu	Pro	Pro	Tyr	Lys	Leu	Lys	Leu	Asp	Leu	Thr	Lys
				340				345						350	

Leu  
353

<210> 1298  
 <211> 161  
 <212> Amino acid  
 <213> Homo sapiens

Phe	Pro	Glu	Leu	Gly	Thr	Ser	Leu	Ser	Ala	Met	Arg	Phe	Leu	Ala	Ala
1				5					10					15	
Thr	Phe	Leu	Leu	Leu	Ala	Leu	Ser	Thr	Ala	Ala	Gln	Ala	Glu	Pro	Val
			20					25					30		
Gln	Phe	Lys	Asp	Cys	Gly	Ser	Val	Asp	Gly	Val	Ile	Lys	Glu	Val	Asn
		35					40					45			
Val	Ser	Pro	Cys	Pro	Thr	Gln	Pro	Cys	Gln	Leu	Ser	Lys	Gly	Gln	Ser
	50				55					60					
Tyr	Ser	Val	Asn	Val	Thr	Phe	Thr	Ser	Asn	Ile	Gln	Ser	Lys	Ser	Ser
65					70				75					80	
Lys	Ala	Val	Val	His	Gly	Ile	Leu	Met	Gly	Val	Pro	Val	Pro	Phe	Pro
				85					90					95	
Ile	Pro	Glu	Pro	Asp	Gly	Cys	Lys	Ser	Gly	Ile	Asn	Cys	Pro	Ile	Gln
		100						105					110		
Lys	Asp	Lys	Thr	Tyr	Ser	Tyr	Leu	Asn	Lys	Leu	Pro	Val	Lys	Ser	Glu
		115				120					125				
Tyr	Pro	Ser	Ile	Lys	Leu	Val	Val	Glu	Trp	Gln	Leu	Gln	Asp	Asp	Lys
	130				135						140				
Asn	Gln	Ser	Leu	Phe	Cys	Trp	Glu	Ile	Pro	Val	Gln	Ile	Val	Ser	His
				150						155				160	

Leu  
161

<210> 1299  
 <211> 128  
 <212> Amino acid  
 <213> Homo sapiens

Ala	Pro	Glu	Thr	Phe	Arg	Cys	Val	Trp	Arg	Leu	Gln	Gly	Leu	Thr	Phe
1					5				10					15	

```

Ile Ala Phe Thr Glu Leu Gln Ala Lys Val Ile Asp Thr Gln Gln Lys
      20      25      30
Val Lys Leu Ala Asp Ile Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys
      35      40      45
His Ala His Leu Thr Asp Thr Glu Ile Met Thr Leu Val Asp Glu Thr
      50      55      60
Asn Met Tyr Glu Gly Val Gly Arg Met Phe Ile Leu Gln Ser Lys Glu
      65      70      75      80
Ala Ile His Ser Gln Leu Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys
      85      90      95
Ile Lys Glu Leu Glu Gln Lys Lys Ser Tyr Leu Glu Arg Ser Val Lys
      100      105      110
Glu Ala Glu Asp Asn Ile Arg Glu Met Leu Met Ala Arg Arg Ala Gln
      115      120      125      128

```

&lt;210&gt; 1300

&lt;211&gt; 265

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(265)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1300

```

His Ser Leu Leu Leu Gly Thr Arg Val Arg Asp Ala Ser Ser Lys Ile
  1      5      10      15
Gln Gly Glu Tyr Thr Leu Thr Leu Arg Lys Gly Gly Asn Asn Lys Leu
      20      25      30
Ser Arg Val Phe His Arg Asp Gly His Tyr Gly Phe Ser Glu Pro Leu
      35      40      45
Thr Phe Cys Ser Val Val Asp Leu Ile Asn His Tyr Arg His Glu Ser
      50      55      60
Leu Ala Gln Tyr Asn Ala Lys Leu Asp Thr Arg Leu Leu Tyr Pro Val
      65      70      75      80
Ser Lys Tyr Gln Gln Val Arg Ala Gly Leu Gly Ala Arg Glu Gly Ser
      85      90      95
Thr Trp Leu Ala Pro Gly Leu Ser Phe Leu Gly Arg Pro Asp Gln Ala
      100      105      110
Met His Leu Pro Ser Phe Arg His Val Ser Pro Asp Gln Ile Val Lys
      115      120      125
Glu Asp Ser Val Glu Ala Val Gly Ala Gln Leu Lys Val Tyr His Gln
      130      135      140
Gln Tyr Gln Asp Lys Ser Arg Glu Tyr Asp Gln Leu Tyr Glu Glu Tyr
      145      150      155      160
Thr Arg Thr Ser Gln Glu Leu Gln Met Lys Arg Thr Ala Ile Glu Ala
      165      170      175
Phe Asn Glu Thr Thr Ile Lys Ile Phe Glu Glu Gln Gly Gln Thr Gln Glu
      180      185      190
Lys Cys Ser Lys Glu Tyr Leu Glu Arg Phe Arg Arg Glu Gly Asn Gln
      195      200      205
Thr Lys Glu Met Gln Arg Ile Leu Leu Asn Ser Glu Arg Leu Lys Ser
      210      215      220
Arg Ile Ala Glu Ile His Glu Ser Pro His Arg Ser Trp Glu Gln Gln
      225      230      235      240
Leu Leu Val Pro Arg Ala Ser Asp Asn Lys Arg Asp Ile Asp Lys Pro

```

245  
 His Xaa Thr Ser Leu Lys Pro Asp Leu  
 260 265

<210> 1301  
 <211> 490  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1301  
 Ala Ala Ala Ala Gly Arg Gly Arg Ser Ser Gly Arg Arg Arg Arg  
 1 5 10 15  
 Arg Arg Pro Gly Ala Leu Phe Ala Ser Leu Gly Val Leu Leu Gly Pro  
 20 25 30  
 Arg Pro Pro Pro Gly Ile Pro Arg Thr Arg Ala Cys Ser Met Gly Gly  
 35 40 45  
 Val Gly Glu Pro Gly Pro Arg Glu Gly Pro Ala Gln Pro Gly Ala Pro  
 50 55 60  
 Leu Pro Thr Phe Cys Trp Glu Gln Ile Arg Ala His Asp Gln Pro Gly  
 65 70 75 80  
 Asp Lys Trp Leu Val Ile Glu Arg Arg Val Tyr Asp Ile Ser Arg Trp  
 85 90 95  
 Ala Gln Arg His Pro Gly Gly Ser Arg Leu Ile Gly His His Gly Ala  
 100 105 110  
 Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Gln Asp Leu Asn Phe  
 115 120 125  
 Val Arg Lys Phe Leu Gln Pro Leu Leu Ile Gly Glu Leu Ala Pro Glu  
 130 135 140  
 Glu Pro Ser Gln Asp Gly Pro Leu Asn Ala Gln Leu Val Glu Asp Phe  
 145 150 155 160  
 Arg Ala Leu His Gln Ala Ala Glu Asp Met Lys Leu Phe Asp Ala Ser  
 165 170 175  
 Pro Thr Phe Phe Ala Phe Leu Leu Gly His Ile Leu Ala Met Glu Val  
 180 185 190  
 Leu Ala Trp Leu Leu Ile Tyr Leu Leu Gly Pro Gly Trp Val Pro Ser  
 195 200 205  
 Ala Leu Ala Ala Phe Ile Leu Ala Ile Ser Gln Ala Gln Ser Trp Cys  
 210 215 220  
 Leu Gln His Asp Leu Gly His Ala Ser Ile Phe Lys Lys Ser Trp Trp  
 225 230 235 240  
 Asn His Val Ala Gln Lys Phe Val Met Gly Gln Leu Lys Gly Phe Ser  
 245 250 255  
 Ala His Trp Trp Asn Phe Arg His Phe Gln His His Ala Lys Pro Asn  
 260 265 270  
 Ile Phe His Lys Asp Pro Asp Val Thr Val Ala Pro Val Phe Leu Leu  
 275 280 285  
 Gly Glu Ser Ser Val Glu Tyr Gly Lys Lys Lys Arg Arg Tyr Leu Pro  
 290 295 300  
 Tyr Asn Gln Gln His Leu Tyr Phe Phe Leu Ile Gly Pro Pro Leu Leu  
 305 310 315 320  
 Thr Leu Val Asn Phe Glu Val Glu Asn Leu Ala Tyr Met Leu Val Cys  
 325 330 335  
 Met Gln Trp Ala Asp Leu Leu Trp Ala Ala Ser Phe Tyr Ala Arg Phe  
 340 345 350  
 Phe Leu Ser Tyr Leu Pro Phe Tyr Gly Val Pro Gly Val Leu Leu Phe  
 355 360 365  
 Phe Val Ala Val Arg Val Leu Glu Ser His Trp Phe Val Trp Ile Thr  
 370 375 380  
 Gln Met Asn His Ile Pro Lys Glu Ile Gly His Glu Lys His Arg Asp

```

385              390              395              400
Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu Pro Ser Leu
              405              410              415
Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His
              420              425              430
Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val Ala Pro Leu
              435              440              445
Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu Val Lys Pro
              450              455              460
Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys Lys Ser Gly
465              470              475              480
Asp Ile Trp Leu Asp Ala Tyr Leu His Gln
              485              490

```

```

<210> 1302
<211> 110
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1302
Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe
1              5              10              15
Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser
              20              25              30
Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala
              35              40              45
Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro
              50              55              60
Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp
65              70              75              80
Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro
              85              90              95
Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
              100              105              110

```

```

<210> 1303
<211> 138
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1303
Ile Gln Tyr Arg Ser Asp Leu Glu Leu His Ser Ile Thr Met Lys Lys
1              5              10              15
Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val Leu Ile Gly
              20              25              30
Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser
              35              40              45
Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp Leu Lys Gln
              50              55              60
Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu
65              70              75              80
Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala Asp Val Lys
              85              90              95
Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Lys Gln

```

100 105 110  
 Lys Asn Gly Lys Lys His Gln Lys Lys Val Leu Lys Val Arg Lys  
 115 120 125  
 Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr  
 130 135 138

<210> 1304  
 <211> 1000  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1304  
 Ile Pro Gly Ser Thr Ile Ser Cys Arg Gly Cys Cys Gly Lys Trp Pro  
 1 5 10 15  
 Val Gln Glu Ala Asp Pro Pro Arg Ala Leu Arg Gly Arg Phe Pro  
 20 25 30  
 Ala Leu Leu Thr Arg His Cys Pro Ser Pro Arg Ala Glu Lys Glu Lys  
 35 40 45  
 Arg Ser Leu Arg Arg Cys Gly Cys Arg Pro Leu Leu Val Glu Leu Ala  
 50 55 60  
 Gly Pro Ala Gly Gln Ala Val Glu Val Leu Pro His Phe Glu Ser Leu  
 65 70 75 80  
 Gly Lys Gln Glu Lys Ile Pro Asn Lys Met Ser Ala Phe Arg Asn His  
 85 90 95  
 Cys Pro His Leu Asp Ser Val Gly Glu Ile Thr Lys Glu Asp Leu Ile  
 100 105 110  
 Gln Lys Ser Leu Gly Thr Cys Gln Asp Cys Lys Val Gln Gly Pro Asn  
 115 120 125  
 Leu Trp Ala Cys Leu Glu Asn Arg Cys Ser Tyr Val Gly Cys Gly Glu  
 130 135 140  
 Ser Gln Val Asp His Ser Thr Ile His Ser Gln Glu Thr Lys His Tyr  
 145 150 155 160  
 Leu Thr Val Asn Leu Thr Thr Leu Arg Val Trp Cys Tyr Ala Cys Ser  
 165 170 175  
 Lys Glu Val Phe Leu Asp Arg Lys Leu Gly Thr Gln Pro Ser Leu Pro  
 180 185 190  
 His Val Arg Gln Pro His Gln Ile Gln Glu Asn Ser Val Gln Asp Phe  
 195 200 205  
 Lys Ile Pro Ser Asn Thr Thr Leu Lys Thr Pro Leu Val Ala Val Phe  
 210 215 220  
 Asp Asp Leu Asp Ile Glu Ala Asp Glu Glu Asp Glu Leu Arg Ala Arg  
 225 230 235 240  
 Gly Leu Thr Gly Leu Lys Asn Ile Gly Asn Thr Cys Tyr Met Asn Ala  
 245 250 255  
 Ala Leu Gln Ala Leu Ser Asn Cys Pro Pro Leu Thr Gln Phe Phe Leu  
 260 265 270  
 Asp Cys Gly Gly Leu Ala Arg Thr Asp Lys Lys Pro Ala Ile Cys Lys  
 275 280 285  
 Ser Tyr Leu Lys Leu Met Thr Glu Leu Trp Tyr Lys Ser Arg Pro Gly  
 290 295 300  
 Ser Val Val Pro Thr Thr Leu Phe Gln Gly Ile Lys Thr Val Asn Pro  
 305 310 315 320  
 Thr Phe Arg Gly Tyr Ser Gln Gln Asp Ala Gln Glu Phe Leu Arg Cys  
 325 330 335  
 Leu Met Asp Leu Leu His Glu Glu Leu Lys Glu Gln Val Met Glu Val  
 340 345 350  
 Glu Glu Asp Pro Gln Thr Ile Thr Thr Glu Glu Thr Met Glu Glu Asp  
 355 360 365  
 Lys Ser Gln Ser Asp Val Asp Phe Gln Ser Cys Glu Ser Cys Ser Asn

370	375	380
Ser Asp Arg Ala Glu Asn Glu Asn Gly Ser Arg Cys Phe Ser Glu Asp		
385	390	395
Asn Asn Glu Thr Thr Met Leu Ile Gln Asp Asp Glu Asn Asn Ser Glu		400
	405	410
Met Ser Lys Asp Trp Gln Lys Glu Lys Met Cys Asn Lys Ile Asn Lys		415
	420	425
Val Asn Ser Glu Gly Glu Phe Asp Lys Asp Arg Asp Ser Ile Ser Glu		430
	435	440
Thr Val Asp Leu Asn Asn Gln Glu Thr Val Lys Val Gln Ile His Ser		445
	450	455
Arg Ala Ser Glu Tyr Ile Thr Asp Val His Ser Asn Asp Leu Ser Thr		460
	465	470
Pro Gln Ile Leu Pro Ser Asn Glu Gly Val Asn Pro Arg Leu Ser Ala		475
	485	490
Ser Pro Pro Lys Ser Gly Asn Leu Trp Pro Gly Leu Ala Pro Pro His		495
	500	505
Lys Lys Ala Gln Ser Ala Ser Pro Lys Arg Lys Lys Gln His Lys Lys		510
	515	520
Tyr Arg Ser Val Ile Ser Asp Ile Phe Asp Gly Thr Ile Ile Ser Ser		525
	530	535
Val Gln Cys Leu Thr Cys Asp Arg Val Ser Val Thr Leu Glu Thr Phe		540
	545	550
Gln Asp Leu Ser Leu Pro Ile Pro Gly Lys Glu Asp Leu Ala Lys Leu		555
	565	570
His Ser Ser Ser His Pro Thr Ser Ile Val Lys Ala Gly Ser Cys Gly		575
	580	585
Glu Ala Tyr Ala Pro Gln Gly Trp Ile Ala Phe Phe Met Glu Tyr Val		590
	595	600
Lys Arg Phe Val Val Ser Cys Val Pro Ser Trp Phe Trp Gly Pro Val		605
	610	615
Val Thr Leu Gln Asp Cys Leu Ala Ala Phe Phe Ala Arg Asp Glu Leu		620
	625	630
Lys Gly Asp Asn Met Tyr Ser Cys Glu Lys Cys Lys Lys Leu Arg Asn		635
	645	650
Gly Val Lys Phe Cys Lys Val Gln Asn Phe Pro Glu Ile Leu Cys Ile		655
	660	665
His Leu Lys Arg Phe Arg His Glu Leu Met Phe Ser Thr Lys Ile Ser		670
	675	680
Thr His Val Ser Phe Pro Leu Glu Gly Leu Asp Leu Gln Pro Phe Leu		685
	690	695
Ala Lys Asp Ser Pro Ala Gln Ile Val Thr Tyr Asp Leu Leu Ser Val		700
	705	710
Ile Cys His His Gly Thr Ala Ser Ser Gly His Tyr Ile Ala Tyr Cys		715
	725	730
Arg Asn Asn Leu Asn Asn Leu Trp Tyr Glu Phe Asp Asp Gln Ser Val		735
	740	745
Thr Glu Val Ser Glu Ser Thr Val Gln Asn Ala Glu Ala Tyr Val Leu		750
	755	760
Phe Tyr Arg Lys Ser Ser Glu Glu Ala Gln Lys Glu Arg Arg Arg Ile		765
	770	775
Ser Asn Leu Leu Asn Ile Met Glu Pro Ser Leu Leu Gln Phe Tyr Ile		780
	785	790
Ser Arg Gln Trp Leu Asn Lys Phe Lys Thr Phe Ala Glu Pro Gly Pro		795
	805	810
Ile Ser Asn Asn Asp Phe Leu Cys Ile His Gly Gly Val Pro Pro Arg		815
	820	825
Lys Ala Gly Tyr Ile Glu Asp Leu Val Leu Met Leu Pro Gln Asn Ile		830
	835	840
Trp Asp Asn Leu Tyr Ser Arg Tyr Gly Gly Gly Pro Ala Val Asn His		845
	850	855
Leu Tyr Ile Cys His Thr Cys Gln Ile Glu Ala Glu Lys Ile Glu Lys		860
	865	870
Arg Arg Lys Thr Glu Leu Glu Ile Phe Ile Arg Leu Asn Arg Ala Phe		875
		880





50 55 60  
 Gly Ser Asp Thr Ala Val Asp Ala Ala Phe Glu Pro Val Tyr Trp Leu  
 65 70 80  
 Val Asp Asn Val Ile Arg Trp Phe Gly Val Val Phe Val Val Leu Val  
 85 90 95  
 Ile Val Leu Thr Gly Ser Ile Val Ala Ile Ala Tyr Leu Cys Val Leu  
 100 105 110  
 Pro Leu Ile Leu Arg Thr Tyr Ser Val Pro Arg Leu Cys Trp His Phe  
 115 120 125  
 Phe Tyr Ser His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln  
 130 135 140  
 Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile  
 145 150 155 160  
 Ala Thr Val Ser Ile Cys Lys Lys Cys Ile Tyr Pro Lys Pro Ala Arg  
 165 170 175  
 Thr His His Cys Ser Ile Cys Asn Arg Cys Val Leu Lys Met Asp His  
 180 185 190  
 His Cys Pro Trp Leu Asn Asn Cys Val Gly His Tyr Asn His Arg Tyr  
 195 200 205  
 Phe Phe Ser Phe Cys Phe Phe Met Thr Leu Gly Cys Val Tyr Cys Ser  
 210 215 220  
 Tyr Gly Ser Trp Asp Leu Phe Arg Glu Ala Tyr Ala Ala Ile Glu Lys  
 225 230 235 240  
 Met Lys Gln Leu Asp Lys Asn Lys Leu Gln Ala Val Ala Asn Gln Thr  
 245 250 255  
 Tyr His Gln Thr Pro Pro Pro Thr Phe Ser Phe Arg Glu Arg Met Thr  
 260 265 270  
 His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val Ala Leu  
 275 280 285  
 Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser Arg Gly  
 290 295 300  
 Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg Arg Leu  
 305 310 315 320  
 Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly Cys Leu  
 325 330 335  
 Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His Trp Leu  
 340 345 350  
 Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn Gly Met  
 355 360 365  
 Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser Val Met  
 370 375 380  
 Ala Val  
 385 386

&lt;210&gt; 1307

&lt;211&gt; 298

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1307

Ala Thr Arg Arg Arg Ala Ala Glu Ala Gly Met Ala Ala Val Leu Gln  
 1 5 10 15  
 Arg Val Glu Arg Leu Ser Asn Arg Val Val Arg Val Leu Gly Cys Asn  
 20 25 30  
 Pro Gly Pro Met Thr Leu Gln Gly Thr Asn Thr Tyr Leu Val Gly Thr  
 35 40 45  
 Gly Pro Arg Arg Ile Leu Ile Asp Thr Gly Glu Pro Ala Ile Pro Glu  
 50 55 60  
 Tyr Ile Ser Cys Leu Lys Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile

```

65          70          75          80
Gln Glu Ile Val Val Thr His Trp His Arg Asp His Ser Gly Gly Ile
      85          90          95
Gly Asp Ile Cys Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys
      100          105          110
Lys Leu Pro Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu
      115          120          125
Gln Gln Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly
      130          135          140
Ala Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met
      145          150          155
Ala Leu Leu Leu Glu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys Ile
      160          165          170
Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr Met Asn
      175          180          185
Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile Tyr Pro Gly
      190          195          200
His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile Gln Gln Tyr Ile
      205          210          215
Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu Thr Leu Phe Arg Glu
      220          225          230
Asn Phe Glu Lys Ser Phe Thr Val Met Glu Leu Val Lys Ile Ile Tyr
      235          240          245
Lys Asn Thr Pro Glu Asn Leu His Glu Met Ala Lys His Asn Leu Leu
      250          255          260
Leu His Leu Lys Lys Leu Glu Lys Glu Gly Lys Ile Phe Ser Asn Thr
      265          270          275
Asp Pro Asp Lys Lys Trp Lys Ala His Leu
      280          285          290
      295          298

```

&lt;210&gt; 1308

&lt;211&gt; 306

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1308

```

Glu Leu His Arg Ala Gly Gln Val Ala Gly Gly Ala Arg Arg Ser Arg
1          5          10          15
Arg Glu Ser Met Glu Leu Glu Arg Ile Val Ser Ala Ala Leu Leu Ala
      20          25          30
Phe Val Gln Thr His Leu Pro Glu Ala Asp Leu Ser Gly Leu Asp Glu
      35          40          45
Val Ile Phe Ser Tyr Val Leu Gly Val Leu Glu Asp Leu Gly Pro Ser
      50          55          60
Gly Pro Ser Glu Glu Asn Phe Asp Met Glu Ala Phe Thr Glu Met Met
      65          70          75          80
Glu Ala Tyr Val Pro Gly Phe Ala His Ile Pro Arg Gly Thr Ile Gly
      85          90          95
Asp Met Met Gln Lys Leu Ser Gly Gln Leu Ser Asp Ala Arg Asn Lys
      100          105          110
Glu Asn Leu Gln Pro Gln Ser Ser Gly Val Gln Gly Gln Val Pro Ile
      115          120          125
Ser Pro Glu Pro Leu Gln Arg Pro Glu Met Leu Lys Glu Glu Thr Arg
      130          135          140
Ser Ser Ala Ala Ala Ala Ala Asp Thr Gln Asp Glu Ala Thr Gly Ala
      145          150          155          160
Glu Glu Glu Leu Leu Pro Gly Val Asp Val Leu Leu Glu Val Phe Pro
      165          170          175
Thr Cys Ser Val Glu Gln Ala Gln Trp Val Leu Ala Lys Ala Arg Gly

```

```

      180              185              190
Asp Leu Glu Glu Ala Val Gln Met Leu Val Glu Gly Lys Glu Glu Gly
   195              200              205
Pro Ala Ala Trp Glu Gly Pro Asn Gln Asp Leu Pro Arg Arg Leu Arg
   210              215              220
Gly Pro Gln Lys Asp Glu Leu Lys Ser Phe Ile Leu Gln Lys Tyr Met
   225              230              235
Met Val Asp Ser Ala Glu Asp Gln Lys Ile His Arg Pro Met Ala Pro
   245              250              255
Lys Glu Ala Pro Lys Lys Leu Ile Arg Tyr Ile Asp Asn Gln Val Val
   260              265              270
Ser Thr Lys Gly Glu Arg Phe Lys Asp Val Arg Asn Pro Glu Ala Glu
   275              280              285
Glu Met Lys Ala Thr Tyr Ile Asn Leu Lys Pro Ala Arg Lys Tyr Arg
   290              295              300
Phe His
305 306

```

```

<210> 1309
<211> 174
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1309
Phe Ile Thr Gly Lys Gly Ile Val Ala Ile Leu Arg Cys Leu Gln Phe
   1           5           10           15
Asn Glu Thr Leu Thr Glu Leu Arg Phe His Asn Gln Arg His Met Leu
   20           25           30
Gly His His Ala Glu Met Glu Ile Ala Arg Leu Leu Lys Ala Asn Asn
   35           40           45
Thr Leu Leu Lys Met Gly Tyr His Phe Glu Leu Pro Gly Pro Arg Met
   50           55           60
Val Val Thr Asn Leu Leu Thr Arg Asn Gln Asp Lys Gln Arg Gln Lys
   65           70           75           80
Arg Gln Glu Glu Gln Lys Gln Gln Gln Leu Lys Glu Lys Lys Leu
   85           90           95
Ile Ala Met Leu Glu Asn Gly Leu Gly Leu Pro Pro Gly Met Trp Glu
   100          105          110
Leu Leu Gly Gly Pro Lys Pro Asp Ser Arg Met Gln Glu Phe Phe Gln
   115          120          125
Pro Pro Pro Pro Arg Pro Pro Asn Pro Gln Asn Val Pro Phe Ser Gln
   130          135          140
Arg Ser Glu Met Met Lys Lys Pro Ser Gln Ala Pro Lys Tyr Arg Thr
   145          150          155          160
Asp Pro Asp Ser Phe Arg Val Val Lys Leu Lys Arg Ile Gln
   165          170          174

```

```

<210> 1310
<211> 616
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)... (616)
<223> X = any amino acid or stop code

```

<400> 1310

Gly Gly Arg Ala Gly Thr Gln Cys Cys Trp Arg Ala Gly Ala Arg Leu  
 1 5 10 15  
 Arg Gly Ile Ser Pro Ser Pro Ala Leu Pro Glu Ala Pro Gly Leu Cys  
 20 25 30  
 Arg Val Arg Ala Gly Leu Gly Ala Gly Arg Ser Pro Ala  
 35 40 45  
 Gly Arg Arg Arg Gly Pro Arg Val Ser Ser Pro Ala Pro His  
 50 55 60  
 Pro Arg Arg Val Leu Cys Arg Cys Leu Leu Phe Leu Phe Phe Ser Cys  
 65 70 75 80  
 His Asp Arg Arg Gly Asp Ser Gln Pro Tyr Gln Ala Leu Lys Tyr Ser  
 85 90 95  
 Ser Lys Ser His Pro Ser Ser Gly Asp His Arg His Glu Lys Met Arg  
 100 105 110  
 Asp Ala Gly Asp Pro Ser Pro Pro Asn Lys Met Leu Arg Arg Ser Asp  
 115 120 125  
 Ser Pro Glu Asn Lys Tyr Ser Asp Ser Thr Gly His Ser Lys Ala Lys  
 130 135 140  
 Asn Val His Thr His Arg Val Arg Glu Arg Asp Gly Gly Thr Ser Tyr  
 145 150 155 160  
 Ser Pro Gln Glu Asn Ser His Asn His Ser Ala Leu His Ser Ser Asn  
 165 170 175  
 Phe Thr Phe Phe Leu Ile Pro Ser Asn Xaa Pro Gln Gly Lys Thr Phe  
 180 185 190  
 Arg Ile Ala Pro Tyr Asp Ser Ala Asp Asp Trp Ser Leu Glu His Ile  
 195 200 205  
 Ser Ser Ser Gly Glu Lys Tyr Tyr Tyr Asn Cys Arg Thr Glu Val Ser  
 210 215 220  
 Gln Trp Gly Lys Thr Pro Lys Ser Gly Leu Glu Arg Gly Gln Arg Gln  
 225 230 235 240  
 Lys Glu Ala Asn Lys Met Ala Val Asn Ser Phe Pro Lys Asp Arg Asp  
 245 250 255  
 Tyr Arg Arg Glu Val Met Gln Ala Thr Ala Thr Ser Gly Phe Ala Ser  
 260 265 270  
 Gly Lys Ser Thr Ser Gly Asp Lys Pro Val Ser His Ser Cys Thr Thr  
 275 280 285  
 Pro Ser Thr Ser Ser Ala Ser Gly Leu Asn Pro Thr Ser Ala Pro Pro  
 290 295 300  
 Thr Ser Ala Ser Ala Val Pro Val Ser Pro Val Pro Gln Ser Pro Ile  
 305 310 315 320  
 Pro Pro Leu Leu Gln Asp Pro Asn Leu Leu Arg Gln Leu Leu Pro Ala  
 325 330 335  
 Leu Glu Ala Thr Leu Gln Leu Asn Asn Ser Asn Val Asp Ile Ser Ile  
 340 345 350  
 Ile Asn Glu Val Leu Thr Gly Asp Val Thr Gln Ala Ser Leu Gln Thr  
 355 360 365  
 Ile Ile His Lys Cys Leu Thr Ala Gly Pro Ser Val Phe Lys Ile Thr  
 370 375 380  
 Ser Leu Ile Ser Gln Ala Ala Gln Leu Ser Thr Gln Ala Gln Ala Ser  
 385 390 395 400  
 Asn Gln Ser Pro Met Ser Leu Thr Ser Asp Ala Ser Ser Pro Arg Ser  
 405 410 415  
 Tyr Val Ser Pro Arg Asn Lys Ala His Leu Lys Leu Asn Thr Val Pro  
 420 425 430  
 Ile Gln Thr Phe Gly Phe Ser Thr Pro Pro Val Ser Ser Gln Pro Lys  
 435 440 445  
 Val Ser Thr Pro Val Val Lys Gln Gly Pro Val Ser Gln Ser Ala Thr  
 450 455 460  
 Gln Gln Pro Val Thr Ala Asp Lys Gln Gln Gly His Glu Pro Val Ser  
 465 470 475 480

Pro Arg Ser Leu Gln Arg Ser Ser Ser Gln Arg Ser Pro Ser Pro Gly  
 485 490 495  
 Pro Asn His Thr Ser Asn Ser Ser Asn Ala Ser Asn Ala Thr Val Val  
 500 505 510  
 Pro Gln Asn Ser Ser Ala Arg Ser Thr Cys Ser Leu Thr Pro Ala Leu  
 515 520 525  
 Ala Ala His Phe Ser Glu Asn Leu Ile Lys His Val Gln Gly Trp Pro  
 530 535 540  
 Ala Asp His Ala Glu Lys Gln Ala Ser Arg Leu Arg Glu Glu Ala His  
 545 550 555 560  
 Asn Met Gly Thr Ile His Met Ser Glu Ile Cys Thr Glu Leu Lys Asn  
 565 570 575  
 Leu Arg Ser Leu Val Arg Val Cys Glu Ile Gln Ala Thr Leu Arg Glu  
 580 585 590  
 Gln Arg Ile Leu Phe Leu Arg Gln Gln Ile Lys Glu Leu Glu Lys Leu  
 595 600 605  
 Lys Asn Gln Asn Ser Phe Met Val  
 610 615 616

<210> 1311  
 <211> 387  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1311  
 Val Ala Pro Glu Cys Arg Gly Ala Tyr Pro Phe Arg Ala Met Met Pro  
 1 5 10 15  
 Gly Thr Ala Leu Lys Ala Val Leu Leu Ala Val Leu Leu Val Gly Leu  
 20 25 30  
 Gln Thr Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val Cys Arg Gly  
 35 40 45  
 Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His Asp Thr Ser  
 50 55 60  
 Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg Arg Asp Gly  
 65 70 75 80  
 Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys Leu Ile Glu  
 85 90 95  
 Lys Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe Trp Ile Gly  
 100 105 110  
 Leu Arg Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Ala Cys Gln Asp  
 115 120 125  
 Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe Arg Asn Trp Tyr  
 130 135 140  
 Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys Val Val Met Tyr His  
 145 150 155 160  
 Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly Pro Tyr Met Phe Gln Trp  
 165 170 175  
 Asn Asp Asp Arg Cys Asn Met Lys Asn Asn Phe Ile Cys Lys Tyr Ser  
 180 185 190  
 Asp Glu Lys Pro Ala Val Pro Ser Arg Glu Ala Glu Gly Glu Glu Thr  
 195 200 205  
 Glu Leu Thr Thr Pro Val Leu Pro Glu Glu Thr Gln Glu Glu Asp Ala  
 210 215 220  
 Lys Lys Thr Phe Lys Glu Ser Arg Glu Ala Ala Leu Asn Leu Ala Tyr  
 225 230 235 240  
 Ile Leu Ile Pro Ser Ile Pro Leu Leu Leu Leu Val Val Thr Thr  
 245 250 255  
 Val Val Cys Trp Val Trp Ile Cys Arg Lys Arg Lys Arg Glu Gln Pro  
 260 265 270

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Asp Pro Ser Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln
      275      280      285
Gly Asn Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser
      290      295      300
Glu Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe
      305      310      315
Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp Tyr
      325      330      335
Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr Leu Val
      340      345      350
Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu Phe Ser Pro
      355      360      365
Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val Glu Asn Glu Ile
      370      375      380
Tyr Gly Tyr
      385      387

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<210> 1312
<211> 470
<212> Amino acid
<213> Homo sapiens

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<400> 1312
Thr Glu Trp Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu
1      5      10      15
Pro Gly Ser Arg Gly Arg Gly Ala Ala Trp Arg Ile Leu Arg Cys
      20      25      30
Arg Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala
      35      40      45
Gln Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr
      50      55      60
Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
      65      70      75      80
Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
      85      90      95
Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
      100      105      110
Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
      115      120      125
His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
      130      135      140
Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
      145      150      155      160
Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
      165      170      175
Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
      180      185      190
Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
      195      200      205
Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
      210      215      220
Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
      225      230      235      240
Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
      245      250      255
Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
      260      265      270
Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
      275      280      285

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Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys  
 290 295 300  
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu  
 305 310 315 320  
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp  
 325 330 335  
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile  
 340 345 350  
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe  
 355 360 365  
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val  
 370 375 380  
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys  
 385 390 395 400  
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His  
 405 410 415  
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp  
 420 425 430  
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu  
 435 440 445  
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu  
 450 455 460  
 Arg Asp Arg Asp Glu Leu  
 465 470

&lt;210&gt; 1313

&lt;211&gt; 262

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1313

Leu Thr Pro Ser Val Gly Pro Val Phe Pro Gly Arg Pro Thr Arg Pro  
 1 5 10 15  
 Leu Ala Ser Pro Phe Pro Val Pro Leu His Arg Cys Ser Ala Gly Ser  
 20 25 30  
 Gln Pro Pro Gly Pro Val Pro Glu Gly Leu Ile Arg Ile Tyr Ser Met  
 35 40 45  
 Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys Ala Lys  
 50 55 60  
 Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg Asn Lys Pro Glu  
 65 70 75 80  
 Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro Val Leu Glu Thr  
 85 90 95  
 Ser Gln Cys Gln Leu Ile Tyr Glu Ser Val Ile Ala Cys Glu Tyr Leu  
 100 105 110  
 Asp Asp Ala Tyr Pro Gly Arg Lys Leu Phe Pro Tyr Asp Pro Tyr Glu  
 115 120 125  
 Arg Ala Arg Gln Lys Met Leu Leu Glu Leu Phe Cys Lys Val Pro His  
 130 135 140  
 Leu Thr Lys Glu Cys Leu Val Ala Leu Arg Cys Gly Arg Glu Cys Thr  
 145 150 155 160  
 Asn Leu Lys Ala Ala Leu Arg Gln Glu Phe Ser Asn Leu Glu Glu Ile  
 165 170 175  
 Leu Glu Tyr Gln Asn Thr Thr Phe Phe Gly Gly Thr Cys Ile Ser Met  
 180 185 190  
 Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val Tyr Gly  
 195 200 205  
 Ile Leu Asp Cys Val Ser His Thr Pro Ala Leu Arg Leu Trp Ile Ser  
 210 215 220

Ala Met Lys Trp Asp Pro Thr Val Cys Ala Leu Leu Met Asp Lys Ser  
 225 230 235 240  
 Ile Phe Gln Gly Phe Leu Asn Leu Tyr Phe Gln Asn Asn Pro Asn Ala  
 245 250 255  
 Phe Asp Phe Gly Leu Cys  
 260 262

<210> 1314  
 <211> 173  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1314  
 Asn Thr Ala Thr Asn Met Thr Gln Pro Asn Ala Gly Thr Arg Lys Tyr  
 1 5 10 15  
 Ser Val Pro Ala Ile Ser Val His Thr Ser Ser Ser Phe Ala Tyr  
 20 25 30  
 Asp Arg Glu Phe Leu Arg Thr Leu Pro Gly Phe Leu Ile Val Ala Glu  
 35 40 45  
 Ile Val Leu Gly Leu Leu Val Trp Thr Leu Ile Ala Gly Thr Glu Tyr  
 50 55 60  
 Phe Arg Val Pro Ala Phe Gly Trp Val Met Phe Val Ala Val Phe Tyr  
 65 70 75 80  
 Trp Val Leu Thr Val Phe Phe Leu Ile Ile Tyr Ile Thr Met Thr Tyr  
 85 90 95  
 Thr Arg Ile Pro Gln Val Pro Trp Thr Thr Val Gly Leu Cys Phe Asn  
 100 105 110  
 Gly Ser Ala Phe Val Leu Tyr Leu Ser Ala Ala Val Val Asp Ala Ser  
 115 120 125  
 Ser Val Ser Pro Glu Arg Asp Ser His Asn Phe Asn Ser Trp Ala Ala  
 130 135 140  
 Ser Ser Phe Phe Ala Phe Leu Val Thr Ile Cys Tyr Ala Gly Asn Thr  
 145 150 155 160  
 Tyr Phe Ser Phe Ile Ala Trp Arg Ser Arg Thr Ile Gln  
 165 170 173

<210> 1315  
 <211> 259  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1315  
 Gly Leu Arg Asp Pro Phe Arg Arg Lys Arg Arg Leu Lys Pro Gln Val  
 1 5 10 15  
 Lys Met Ser Asn Tyr Val Asn Asp Met Trp Pro Gly Ser Pro Gln Glu  
 20 25 30  
 Lys Asp Ser Pro Ser Thr Ser Arg Ser Gly Gly Ser Ser Arg Leu Ser  
 35 40 45  
 Ser Arg Ser Arg Ser Arg Ser Phe Ser Arg Ser Ser Arg Ser His Ser  
 50 55 60  
 Arg Val Ser Ser Arg Phe Ser Ser Arg Ser Arg Ser Lys Ser Arg  
 65 70 75 80  
 Ser Arg Ser Arg Arg His Gln Arg Lys Tyr Arg Arg Tyr Ser Arg  
 85 90 95



Ser Tyr Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Arg Tyr Arg Glu  
 100 105 110  
 Arg Arg Tyr Gly Phe Thr Arg Arg Tyr Tyr Arg Ser Pro Ser Arg Tyr  
 115 120 125  
 Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Gly Arg Ser Tyr Cys  
 130 135 140  
 Gly Arg Ala Tyr Ala Ile Ala Arg Gly Gln Arg Tyr Tyr Gly Phe Gly  
 145 150 155 160  
 Arg Thr Val Tyr Pro Glu Glu His Ser Arg Trp Arg Asp Arg Ser Arg  
 165 170 175  
 Thr Arg Ser Arg Ser Arg Thr Pro Phe Arg Leu Ser Glu Lys Asp Arg  
 180 185 190  
 Met Glu Leu Leu Glu Ile Ala Lys Thr Asn Ala Ala Lys Ala Leu Gly  
 195 200 205  
 Thr Thr Asn Ile Asp Leu Pro Ala Ser Leu Arg Thr Val Pro Ser Ala  
 210 215 220  
 Lys Glu Thr Ser Arg Gly Ile Gly Val Ser Ser Asn Gly Ala Lys Pro  
 225 230 235 240  
 Glu Val Ser Ile Leu Gly Leu Ser Glu Gln Asn Phe Gln Lys Ala Asn  
 245 250 255  
 Cys Gln Ile  
 259

&lt;210&gt; 1316

&lt;211&gt; 678

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1316

Ala Glu Gly Ser Thr Met Asp Leu Thr Lys Met Gly Met Ile Gln Leu  
 1 5 10 15  
 Gln Asn Pro Asn His Pro Thr Gly Leu Leu Cys Lys Ala Asn Gln Met  
 20 25 30  
 Arg Leu Ala Gly Thr Leu Cys Asp Val Val Ile Met Val Asp Ser Gln  
 35 40 45  
 Glu Phe His Ala His Arg Thr Val Leu Ala Cys Thr Ser Lys Met Phe  
 50 55 60  
 Glu Ile Leu Phe His Arg Asn Ser Gln His Tyr Thr Leu Asp Phe Leu  
 65 70 75 80  
 Ser Pro Lys Thr Phe Gln Gln Ile Leu Glu Tyr Ala Tyr Thr Ala Thr  
 85 90 95  
 Leu Gln Ala Lys Ala Glu Asp Leu Asp Asp Leu Leu Tyr Ala Ala Glu  
 100 105 110  
 Ile Leu Glu Ile Glu Tyr Leu Glu Glu Gln Cys Leu Lys Met Leu Glu  
 115 120 125  
 Thr Ile Gln Ala Ser Asp Asp Asn Asp Thr Glu Ala Thr Met Ala Asp  
 130 135 140  
 Gly Gly Ala Glu Glu Lys Lys Asp Arg Lys Ala Arg Tyr Leu Lys Asn  
 145 150 155 160  
 Ile Phe Ile Ser Lys His Ser Ser Glu Glu Ser Gly Tyr Ala Ser Val  
 165 170 175  
 Ala Gly Gln Ser Leu Pro Gly Pro Met Val Asp Gln Ser Pro Ser Val  
 180 185 190  
 Ser Thr Ser Phe Gly Leu Ser Ala Met Ser Pro Thr Lys Ala Ala Val  
 195 200 205  
 Asp Ser Leu Met Thr Ile Gly Gln Ser Leu Leu Gln Gly Thr Leu Gln  
 210 215 220  
 Pro Pro Ala Gly Pro Glu Glu Pro Thr Leu Ala Gly Gly Arg His  
 225 230 235 240

Pro Gly Val Ala Glu Val Lys Thr Glu Met Met Gln Val Asp Glu Val  
 245 250 255  
 Pro Ser Gln Asp Ser Pro Gly Ala Ala Glu Ser Ser Ile Ser Gly Gly  
 260 265 270  
 Met Gly Asp Lys Val Glu Glu Arg Gly Lys Glu Gly Pro Gly Thr Pro  
 275 280 285  
 Thr Arg Ser Ser Val Ile Thr Ser Ala Arg Glu Leu His Tyr Gly Arg  
 290 295 300  
 Glu Glu Ser Ala Glu Gln Val Pro Pro Pro Ala Glu Ala Gly Gln Ala  
 305 310 315 320  
 Pro Thr Gly Arg Pro Glu His Pro Ala Pro Pro Glu Lys His Leu  
 325 330 335  
 Gly Ile Tyr Ser Val Leu Pro Asn His Lys Ala Asp Ala Val Leu Ser  
 340 345 350  
 Met Pro Ser Ser Val Thr Ser Gly Leu His Val Gln Pro Ala Leu Ala  
 355 360 365  
 Val Ser Met Asp Phe Ser Thr Tyr Gly Gly Leu Leu Pro Gln Gly Phe  
 370 375 380  
 Ile Gln Arg Glu Leu Phe Ser Lys Leu Gly Glu Leu Ala Val Gly Met  
 385 390 395 400  
 Lys Ser Glu Ser Arg Thr Ile Gly Glu Gln Cys Ser Val Cys Gly Val  
 405 410 415  
 Glu Leu Pro Asp Asn Glu Ala Val Glu Gln His Arg Lys Leu His Ser  
 420 425 430  
 Gly Met Lys Thr Tyr Gly Cys Glu Leu Cys Gly Lys Arg Phe Leu Asp  
 435 440 445  
 Ser Leu Arg Leu Arg Met His Leu Leu Ala His Ser Ala Gly Ala Lys  
 450 455 460  
 Ala Phe Val Cys Asp Gln Cys Gly Ala Gln Phe Ser Lys Glu Asp Ala  
 465 470 475 480  
 Leu Glu Thr His Arg Gln Thr His Thr Gly Thr Asp Met Ala Val Phe  
 485 490 495  
 Cys Leu Leu Cys Gly Lys Arg Phe Gln Ala Gln Ser Ala Leu Gln Gln  
 500 505 510  
 His Met Glu Val His Ala Gly Val Arg Ser Tyr Ile Cys Ser Glu Cys  
 515 520 525  
 Asn Arg Thr Phe Pro Ser His Thr Ala Leu Lys Arg His Leu Arg Ser  
 530 535 540  
 His Thr Gly Asp His Pro Tyr Glu Cys Glu Phe Cys Gly Ser Cys Phe  
 545 550 555 560  
 Arg Asp Glu Ser Thr Leu Lys Ser His Lys Arg Ile His Thr Gly Glu  
 565 570 575  
 Lys Pro Tyr Glu Cys Asn Gly Cys Gly Lys Lys Phe Ser Leu Lys His  
 580 585 590  
 Gln Leu Glu Thr His Tyr Arg Val His Thr Gly Glu Lys Pro Phe Glu  
 595 600 605  
 Cys Lys Leu Cys His Gln Arg Ser Arg Asp Tyr Ser Ala Met Ile Lys  
 610 615 620  
 His Leu Arg Thr His Asn Gly Ala Ser Pro Tyr Gln Cys Thr Ile Cys  
 625 630 635 640  
 Thr Glu Tyr Cys Pro Ser Leu Ser Ser Met Gln Lys His Met Lys Gly  
 645 650 655  
 His Lys Pro Glu Glu Ile Pro Pro Asp Trp Arg Ile Glu Lys Thr Tyr  
 660 665 670  
 Leu Tyr Leu Cys Tyr Val  
 675 678

&lt;210&gt; 1317

&lt;211&gt; 74

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1317  
 Ile Trp Glu Ala Pro Thr Leu Ile Phe Thr Leu Ala Gly Gly Arg Ala  
 1 5 10 15  
 Leu Gly His Pro Pro Met Gln Lys Gly Ser Gln Gly Cys Ala Leu Pro  
 20 25 30  
 His Pro Leu Pro Gly Ala Ser Leu Pro Ala Gln Pro Gly Pro Ala Asp  
 35 40 45  
 His Arg Gly Trp Glu Cys Arg Ile Gly Gly Glu Ala Ser Val Phe Thr  
 50 55 60  
 His Leu Phe Cys Leu Pro His Ser Pro Thr  
 65 70 74

<210> 1318  
 <211> 351  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1318  
 Ala Ser Gly Ser Pro Ala Pro Ser Ser Ser Ser Ala Met Ala Ala Ala  
 1 5 10 15  
 Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu Gly Leu His Leu  
 20 25 30  
 Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn Asp Pro Asp Arg  
 35 40 45  
 Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr Asp Arg Tyr  
 50 55 60  
 Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu Lys Cys Val Gly  
 65 70 75 80  
 Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln  
 85 90 95  
 Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp  
 100 105 110  
 Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly  
 115 120 125  
 Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu  
 130 135 140  
 Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu  
 145 150 155 160  
 Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys  
 165 170 175  
 Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val  
 180 185 190  
 Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser Asp  
 195 200 205  
 Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro Pro Phe Ser His  
 210 215 220  
 Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro Gly Phe  
 225 230 235 240  
 Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His Gly Ala Thr Ser  
 245 250 255  
 Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr Glu Asn Ser Gly  
 260 265 270  
 Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile Leu Gly Tyr Leu  
 275 280 285  
 Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp Ser Trp Tyr Tyr  
 290 295 300

Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn Arg Ala Tyr Ser  
 305 310 315 320  
 Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys Ser Asn Ser Asp  
 325 330 335  
 Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Thr Arg Arg  
 340 345 350 351

<210> 1319  
 <211> 310  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1319  
 Gly Arg Cys Gly Ala Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu  
 1 5 10 15  
 Leu Gly Leu Ser Ala Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met  
 20 25 30  
 Lys Val Val Glu Glu Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu  
 35 40 45  
 Pro Gln Ala Ser Arg Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser  
 50 55 60  
 Gly Pro Val His Leu Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val  
 65 70 75 80  
 Glu Ser Thr Tyr Lys Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln  
 85 90 95  
 His Glu Gln Thr Phe Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile  
 100 105 110  
 Trp His Glu Trp Glu Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met  
 115 120 125  
 Arg Asp Gly Asp Ala Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu  
 130 135 140  
 Leu Ala Cys Gly Lys Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser  
 145 150 155 160  
 Thr Cys Val Tyr Ala Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro  
 165 170 175  
 His Ala Leu Leu Val Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln  
 180 185 190  
 Trp Asp Gln Val Glu Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln  
 195 200 205  
 Gly His Glu Lys Leu Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu  
 210 215 220  
 Lys Thr Pro Glu Glu Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp  
 225 230 235 240  
 Ser Leu Gly Phe Glu Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu  
 245 250 255  
 Leu Ser Lys Glu Ile Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly  
 260 265 270  
 Ile Pro Tyr Thr Arg Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly  
 275 280 285  
 His Glu Thr Pro Arg Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro  
 290 295 300  
 Gly Leu Arg Gly Ser Leu  
 305 310

<210> 1320  
 <211> 313  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1320  
 Asn Ser Phe Trp Ser Val Leu Phe Leu Val Gln Glu Glu Thr Glu Val  
 1 5 10 15  
 Ala Arg Cys Asn Ala Gln His Arg Leu Arg Gln Ser Arg Asp Ser Lys  
 20 25 30  
 Pro Asp Pro Ser Phe Arg Ser Gln Pro Ile Asp Ser Ser Ile Ser Phe  
 35 40 45  
 Ala Gly Ser Asp Ile Gln Pro Leu Phe Ser Phe Ala Ser Val Asp Gly  
 50 55 60  
 Thr Gln Val Gly Glu Ala Glu Glu Trp Ala Gly Pro Trp Ala Glu Ala  
 65 70 75 80  
 Thr Leu Leu Pro Gly Pro Gly Asn Arg Trp Pro Pro Arg Ala Gly Leu  
 85 90 95  
 Ser Gly Asn Trp Leu Glu Glu Asp Gly Asp Trp Pro Ser Leu Pro Glu  
 100 105 110  
 Val Val Gly Phe Val Ser Glu Arg Glu Leu Phe Arg Asp Ala Leu Gly  
 115 120 125  
 Ala Gly Cys Arg Ile Leu Leu Ile Cys Glu Met Gln Leu Thr His Gln  
 130 135 140  
 Leu Asp Leu Phe Pro Glu Cys Arg Val Thr Leu Leu Phe Lys Asp  
 145 150 155 160  
 Val Lys Asn Ala Gly Asp Leu Arg Arg Lys Ala Met Glu Gly Thr Ile  
 165 170 175  
 Asp Gly Ser Leu Ile Asn Pro Thr Val Ile Val Asp Pro Phe Gln Ile  
 180 185 190  
 Leu Val Ala Ala Asn Lys Ala Val His Leu Tyr Lys Leu Gly Lys Met  
 195 200 205  
 Lys Thr Arg Thr Leu Ser Thr Glu Ile Ile Phe Asn Leu Ser Pro Asn  
 210 215 220  
 Asn Asn Ile Ser Glu Ala Leu Lys Lys Phe Gly Ile Ser Ala Asn Asp  
 225 230 235 240  
 Thr Ser Ile Leu Ile Val Tyr Ile Glu Glu Gly Glu Lys Gln Ile Asn  
 245 250 255  
 Gln Glu Tyr Leu Ile Ser Gln Val Glu Gly His Gln Val Ser Leu Lys  
 260 265 270  
 Asn Leu Pro Glu Ile Met Asn Ile Thr Glu Val Lys Lys Ile Tyr Lys  
 275 280 285  
 Leu Ser Ser Gln Glu Glu Ser Ile Gly Thr Leu Leu Asp Ala Ile Ile  
 290 295 300  
 Cys Arg Met Ser Thr Lys Asp Val Leu  
 305 310 313

<210> 1321  
 <211> 891  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1321  
 Gln Arg Ser Trp Ala Gly Pro Gly Ala Gly Pro Glu Ala Gly Thr Arg  
 1 5 10 15  
 Pro Pro Ala Arg Gly Arg Arg Arg Gln Pro Gly Asn Val Asp Pro Arg  
 20 25 30  
 Arg Arg Ala Pro Gln Leu Arg Ser Gln Met Gln Val Ala Met Ala Arg  
 35 40 45

Ala Thr Thr Ala Thr Gly Asn Arg Leu Trp Pro Gly Leu Leu Ile Met  
 50 55 60  
 Leu Gly Ser Leu Cys His Arg Gly Ser Pro Cys Gly Leu Ser Thr His  
 65 70 75 80  
 Ile Glu Ile Gly His Arg Ala Leu Glu Phe Leu Gln Leu His Asn Gly  
 85 90 95  
 Arg Val Asn Tyr Arg Glu Leu Leu Leu Glu His Gln Asp Ala Tyr Gln  
 100 105 110  
 Ala Gly Ile Val Phe Pro Asp Cys Phe Tyr Pro Ser Ile Cys Lys Gly  
 115 120 125  
 Gly Lys Phe His Asp Val Ser Glu Ser Thr His Trp Thr Pro Phe Leu  
 130 135 140  
 Asn Ala Ser Val His Tyr Ile Arg Glu Asn Tyr Pro Leu Pro Trp Glu  
 145 150 155 160  
 Lys Asp Thr Glu Lys Leu Val Ala Phe Leu Phe Gly Ile Thr Ser His  
 165 170 175  
 Met Ala Ala Asp Val Ser Trp His Ser Leu Gly Leu Glu Gln Gly Phe  
 180 185 190  
 Leu Arg Thr Met Gly Ala Ile Asp Phe His Gly Ser Tyr Ser Glu Ala  
 195 200 205  
 His Ser Ala Gly Asp Phe Gly Gly Asp Val Leu Ser Gln Phe Glu Phe  
 210 215 220  
 Asn Phe Asn Tyr Leu Ala Arg Arg Trp Tyr Val Pro Val Lys Asp Leu  
 225 230 235 240  
 Leu Gly Ile Tyr Glu Lys Leu Tyr Gly Arg Lys Val Ile Thr Glu Asn  
 245 250 255  
 Val Ile Val Asp Cys Ser His Ile Gln Phe Leu Glu Met Tyr Gly Glu  
 260 265 270  
 Met Leu Ala Val Ser Lys Leu Tyr Pro Thr Tyr Ser Thr Lys Ser Pro  
 275 280 285  
 Phe Leu Val Glu Gln Phe Gln Glu Tyr Phe Leu Gly Gly Leu Asp Asp  
 290 295 300  
 Met Ala Phe Trp Ser Thr Asn Ile Tyr His Leu Thr Ile Phe Met Leu  
 305 310 315 320  
 Glu Asn Gly Thr Ser Asp Cys Asn Leu Pro Glu Asn Pro Leu Phe Ile  
 325 330 335  
 Ala Cys Gly Gly Gln Gln Asn His Thr Gln Gly Ser Lys Met Gln Lys  
 340 345 350  
 Asn Asp Phe His Arg Asn Leu Thr Thr Ser Leu Thr Glu Ser Val Asp  
 355 360 365  
 Arg Asn Ile Asn Tyr Thr Glu Arg Gly Val Phe Phe Ser Val Asn Ser  
 370 375 380  
 Trp Thr Pro Asp Ser Met Ser Phe Ile Tyr Lys Ala Leu Glu Arg Asn  
 385 390 395 400  
 Ile Arg Thr Met Phe Ile Gly Gly Ser Gln Leu Ser Gln Lys His Val  
 405 410 415  
 Ser Ser Pro Leu Ala Ser Tyr Phe Leu Ser Phe Pro Tyr Ala Arg Leu  
 420 425 430  
 Gly Trp Ala Met Thr Ser Ala Asp Leu Asn Gln Asp Gly His Gly Asp  
 435 440 445  
 Leu Val Val Gly Ala Pro Gly Tyr Ser Arg Pro Gly His Ile His Ile  
 450 455 460  
 Gly Arg Val Tyr Leu Ile Tyr Gly Asn Asp Leu Gly Leu Pro Pro Val  
 465 470 475 480  
 Asp Leu Asp Leu Asp Lys Glu Ala His Arg Ile Leu Glu Gly Phe Gln  
 485 490 495  
 Pro Ser Gly Arg Phe Gly Ser Ala Leu Ala Val Leu Asp Phe Asn Val  
 500 505 510  
 Asp Gly Val Pro Asp Leu Ala Val Gly Ala Pro Ser Val Gly Ser Glu  
 515 520 525  
 Gln Leu Thr Tyr Lys Gly Ala Val Tyr Val Tyr Phe Gly Ser Lys Gln  
 530 535 540  
 Gly Gly Met Ser Ser Ser Pro Asn Ile Thr Ile Ser Cys Gln Asp Ile  
 545 550 555 560

Tyr Cys Asn Leu Gly Trp Thr Leu Leu Ala Ala Asp Val Asn Gly Asp  
 565 570 575  
 Ser Glu Pro Asp Leu Val Ile Gly Ser Pro Phe Ala Pro Gly Gly Gly  
 580 585 590  
 Lys Gln Lys Gly Ile Val Ala Ala Phe Tyr Ser Gly Pro Ser Leu Ser  
 595 600 605  
 Asp Lys Glu Lys Leu Asn Val Glu Ala Ala Asn Trp Thr Val Arg Gly  
 610 615 620  
 Glu Glu Asp Phe Ser Trp Phe Gly Tyr Ser Leu His Gly Val Thr Val  
 625 630 635 640  
 Asp Asn Arg Thr Leu Leu Val Gly Ser Pro Thr Trp Lys Asn Ala  
 645 650 655  
 Ser Arg Leu Gly His Leu Leu His Ile Arg Asp Glu Lys Lys Ser Leu  
 660 665 670  
 Gly Arg Val Tyr Gly Tyr Phe Pro Pro Asn Gly Gln Ser Trp Phe Thr  
 675 680 685  
 Ile Ser Gly Asp Lys Ala Met Gly Lys Leu Gly Thr Ser Leu Ser Ser  
 690 695 700  
 Gly His Val Leu Met Asn Gly Thr Leu Lys Gln Val Leu Leu Val Gly  
 705 710 715 720  
 Ala Pro Thr Tyr Asp Asp Val Ser Lys Val Ala Phe Leu Thr Val Thr  
 725 730 735  
 Leu His Gln Gly Gly Ala Thr Arg Met Tyr Ala Leu Thr Ser Asp Ala  
 740 745 750  
 Gln Pro Leu Leu Ser Thr Phe Ser Gly Asp Arg Arg Phe Ser Arg  
 755 760 765  
 Phe Gly Gly Val Leu His Leu Ser Asp Leu Asp Asp Gly Leu Asp  
 770 775 780  
 Glu Ile Ile Met Ala Ala Pro Leu Arg Ile Ala Asp Val Thr Ser Gly  
 785 790 795 800  
 Leu Ile Gly Gly Glu Asp Gly Arg Val Tyr Val Tyr Asn Gly Lys Glu  
 805 810 815  
 Thr Thr Leu Gly Asp Met Thr Gly Lys Cys Lys Ser Trp Ile Thr Pro  
 820 825 830  
 Cys Pro Glu Glu Lys Ala Gln Tyr Val Leu Ile Ser Pro Glu Ala Ser  
 835 840 845  
 Ser Arg Phe Gly Ser Ser Leu Ile Thr Val Arg Ser Lys Ala Lys Asn  
 850 855 860  
 Gln Val Val Ile Ala Ala Gly Arg Ser Ser Leu Gly Ala Arg Leu Ser  
 865 870 875 880  
 Gly Ala Leu His Val Tyr Ser Leu Gly Ser Asp  
 885 890 891

&lt;210&gt; 1322

&lt;211&gt; 119

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1322

Ser Leu Arg Asn Ser Ala Arg Gly Leu Lys Met Ala Ala Ser Ala Ala  
 1 5 10 15  
 Arg Gly Ala Ala Ala Leu Arg Arg Ser Ile Asn Gln Pro Val Ala Phe  
 20 25 30  
 Val Arg Arg Ile Pro Trp Thr Ala Ala Ser Ser Gln Leu Lys Glu His  
 35 40 45  
 Phe Ala Gln Phe Gly His Val Arg Arg Cys Ile Leu Pro Phe Asp Lys  
 50 55 60  
 Glu Thr Gly Phe His Arg Gly Leu Gly Trp Val Gln Phe Ser Ser Glu  
 65 70 75 80

Glu Gly Leu Arg Asn Ala Leu Gln Gln Glu Asn His Ile Ile Asp Gly  
                             85                            90                            95  
 Val Lys Val Gln Val His Thr Arg Arg Pro Lys Leu Pro Gln Thr Ser  
                             100                            105                            110  
 Asp Asp Glu Glu Lys Lys Asp Phe  
                             115                            119

<210> 1323  
 <211> 257  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1323  
 Gly Ser Ser Asn Ile His Ser Ala Ser Thr His Gly Phe Cys His Trp  
   1                            5                            10                            15  
 Phe Ser Ser Pro Ser Thr Leu Lys Arg Gln Lys Gln Ala Ile Arg Phe  
                             20                            25                            30  
 Gln Lys Ile Arg Arg Gln Met Glu Ala Pro Gly Ala Pro Pro Arg Thr  
                             35                            40                            45  
 Leu Thr Trp Glu Ala Met Glu Gln Ile Arg Tyr Leu His Glu Glu Phe  
                             50                            55                            60  
 Pro Glu Ser Trp Ser Val Pro Arg Leu Ala Glu Gly Phe Asp Val Ser  
                             65                            70                            75                            80  
 Thr Asp Val Ile Arg Arg Val Leu Lys Ser Lys Phe Leu Pro Thr Leu  
                             85                            90                            95  
 Glu Gln Lys Leu Lys Gln Asp Gln Lys Val Leu Lys Lys Ala Gly Leu  
                             100                            105                            110  
 Ala His Ser Leu Gln His Leu Arg Gly Ser Gly Asn Thr Ser Lys Leu  
                             115                            120                            125  
 Leu Pro Ala Gly His Ser Val Ser Gly Ser Leu Leu Met Pro Gly His  
                             130                            135                            140  
 Glu Ala Ser Ser Lys Asp Pro Asn His Ser Thr Ala Leu Lys Val Ile  
                             145                            150                            155                            160  
 Glu Ser Asp Thr His Arg Thr Asn Thr Pro Arg Arg Arg Lys Gly Arg  
                             165                            170                            175  
 Asn Lys Glu Ile Gln Asp Leu Glu Glu Ser Phe Val Pro Val Ala Ala  
                             180                            185                            190  
 Pro Leu Gly His Pro Arg Glu Leu Gln Lys Tyr Ser Ser Asp Ser Glu  
                             195                            200                            205  
 Ser Pro Arg Gly Thr Gly Ser Gly Ala Leu Pro Ser Gly Gln Lys Leu  
                             210                            215                            220  
 Glu Glu Leu Lys Ala Glu Glu Pro Asp Asn Phe Ser Ser Lys Val Val  
                             225                            230                            235                            240  
 Gln Arg Gly Arg Glu Phe Phe Asp Ser Asn Gly Asn Phe Leu Tyr Arg  
                             245                            250                            255  
 Ile  
 257

<210> 1324  
 <211> 273  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1324



Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu  
 1 5 10 15  
 Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro  
 20 25 30  
 Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln  
 35 40 45  
 Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys  
 50 55 60  
 His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys  
 65 70 75 80  
 Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe  
 85 90 95  
 Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr  
 100 105 110  
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile  
 115 120 125  
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val  
 130 135 140  
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu  
 145 150 155 160  
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu  
 165 170 175  
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His  
 180 185 190  
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala  
 195 200 205  
 Gly Thr Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu  
 210 215 220  
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe  
 225 230 235 240  
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly  
 245 250 255  
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr  
 260 265 270  
 Ser  
 273

&lt;210&gt; 1325

&lt;211&gt; 477

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1325

Glu Met Val Gly Ala Met Trp Lys Val Ile Val Ser Leu Val Leu Leu  
 1 5 10 15  
 Met Pro Gly Pro Cys Asp Gly Leu Phe Arg Ser Leu Tyr Arg Ser Val  
 20 25 30  
 Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu Thr Pro  
 35 40 45  
 Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu Ser Leu Val  
 50 55 60  
 Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala Gly Phe Leu Thr  
 65 70 75 80  
 Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe Trp Phe Phe Pro Ala  
 85 90 95  
 Gln Ile Gln Pro Glu Asp Ala Pro Val Val Leu Trp Leu Gln Gly Gly  
 100 105 110  
 Pro Gly Gly Ser Ser Met Phe Gly Leu Phe Val Glu His Gly Pro Tyr  
 115 120 125

Val Val Thr Ser Asn Met Thr Leu Arg Asp Arg Asp Phe Pro Trp Thr  
 130 135 140  
 Thr Thr Leu Ser Met Leu Tyr Ile Asp Asn Pro Val Gly Thr Gly Phe  
 145 150 155 160  
 Ser Phe Thr Asp Asp Thr His Gly Tyr Ala Val Asn Glu Asp Asp Val  
 165 170 175  
 Ala Arg Asp Leu Tyr Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro  
 180 185 190  
 Glu Tyr Lys Asn Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly  
 195 200 205  
 Lys Tyr Val Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val  
 210 215 220  
 Arg Glu Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr  
 225 230 235 240  
 Ser Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln  
 245 250 255  
 Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln Cys  
 260 265 270  
 His Glu Cys Ile Glu His Ile Arg Lys Gln Asn Trp Phe Glu Ala Phe  
 275 280 285  
 Glu Ile Leu Asp Lys Leu Leu Asp Gly Asp Leu Thr Ser Asp Pro Ser  
 290 295 300  
 Tyr Phe Gln Asn Val Thr Gly Cys Ser Asn Tyr Tyr Asn Phe Leu Arg  
 305 310 315 320  
 Cys Thr Glu Pro Glu Asp Gln Leu Tyr Tyr Val Lys Phe Leu Ser Leu  
 325 330 335  
 Pro Glu Val Arg Gln Ala Ile His Val Gly Asn Gln Thr Phe Asn Asp  
 340 345 350  
 Gly Thr Ile Val Glu Lys Tyr Leu Arg Glu Asp Thr Val Gln Ser Val  
 355 360 365  
 Lys Pro Trp Leu Thr Glu Ile Met Asn Asn Tyr Lys Val Leu Ile Tyr  
 370 375 380  
 Asn Gly Gln Leu Asp Ile Ile Val Ala Ala Ala Leu Thr Glu Arg Ser  
 385 390 395 400  
 Leu Met Gly Met Asp Trp Lys Gly Ser Gln Glu Tyr Lys Lys Ala Glu  
 405 410 415  
 Lys Lys Val Trp Lys Ile Phe Lys Ser Asp Ser Glu Val Ala Gly Tyr  
 420 425 430  
 Ile Arg Gln Ala Gly Asp Phe His Gln Val Ile Ile Arg Gly Gly Gly  
 435 440 445  
 His Ile Leu Pro Tyr Asp Gln Pro Leu Arg Ala Phe Asp Met Ile Asn  
 450 455 460  
 Arg Phe Ile Tyr Gly Lys Gly Trp Asp Pro Tyr Val Gly  
 465 470 475 477

&lt;210&gt; 1326

&lt;211&gt; 160

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1326

Arg Asp Glu Arg Ala Lys Val Pro Phe Arg Ser Thr Glu Gly Gly Arg  
 1 5 10 15  
 Arg Arg Arg Arg Met Glu Ala Val Val Phe Val Phe Ser Leu Leu  
 20 25 30  
 Asp Cys Cys Ala Leu Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu  
 35 40 45  
 Ser Asp Leu Glu Cys Asp Tyr Ile Asn Ala Arg Ser Cys Ser Lys  
 50 55 60

```

Leu Asn Lys Trp Val Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr
 65              70              75              80
Val Leu Leu Leu Met Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu
      85              90              95
Pro Val Ala Thr Trp Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly
      100             105             110
Asn Met Gly Val Phe Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu
      115             120             125
Lys Ser His Met Lys Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu
      130             135             140
Cys Phe Phe Met Tyr Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
145              150              155              160

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<210> 1327
<211> 131
<212> Amino acid
<213> Homo sapiens

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```

<400> 1327
Gln Ser Pro Gly His Gly Ala Pro Cys Gln Leu Ser Ser Ser His Ser
 1              5              10              15
Arg Ser Asn Arg Leu Leu Ser Pro Met Ala Arg Ala Thr Leu Ser Ala
      20              25              30
Ala Pro Ser Asn Pro Arg Leu Leu Arg Val Ala Leu Leu Leu Leu
      35              40              45
Leu Val Ala Ala Ser Arg Arg Ala Ala Gly Ala Pro Leu Ala Thr Glu
      50              55              60
Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln Gly Ile His Leu Lys Asn
 65              70              75              80
Ile Gln Ser Val Lys Val Lys Ser Pro Gly Pro His Cys Ala Gln Thr
      85              90              95
Glu Val Ile Ala Thr Leu Lys Asn Gly Gln Lys Ala Cys Leu Asn Pro
      100             105             110
Ala Ser Pro Met Val Lys Lys Ile Ile Glu Lys Met Leu Lys Asn Gly
      115             120             125
Lys Ser Asn
130 131

```

```

<210> 1328
<211> 44
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1328
His Pro Leu Ser Leu Val Phe Leu Ala Leu Asn Thr Gly Lys Glu Lys
 1              5              10              15
Ser His Pro Gly Gly Gly Gly Glu Arg Pro Gly Leu Ala Gly Gln Gly
      20              25              30
Glu Pro Asp His Pro Ala Gly Ala Arg Asp Gly Arg
      35              40              44

```

<210> 1329  
 <211> 525  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1329  
 Cys Thr Pro Val Ala Arg Ser Met Ala Thr Thr Ala Thr Cys Thr Arg  
 1 5 10 15  
 Phe Thr Asp Asp Tyr Gln Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe  
 20 25 30  
 Ser Val Val Arg Arg Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr Ala  
 35 40 45  
 Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys  
 50 55 60  
 Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn Ile  
 65 70 75 80  
 Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val  
 85 90 95  
 Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg  
 100 105 110  
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile Leu  
 115 120 125  
 Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp Leu  
 130 135 140  
 Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala Val  
 145 150 155 160  
 Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln Gln  
 165 170 175  
 Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val  
 180 185 190  
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys Gly  
 195 200 205  
 Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu  
 210 215 220  
 Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe  
 225 230 235 240  
 Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu Ile  
 245 250 255  
 Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp Gln  
 260 265 270  
 Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met  
 275 280 285  
 Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala Arg  
 290 295 300  
 Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg Asn  
 305 310 315 320  
 Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly Val  
 325 330 335  
 Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln Glu  
 340 345 350  
 Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val His  
 355 360 365  
 Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr Thr  
 370 375 380  
 Thr Glu Asp Glu Asp Leu Lys Val Arg Lys Gln Glu Ile Ile Lys Ile  
 385 390 395 400  
 Thr Glu Gln Leu Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr  
 405 410 415  
 Thr Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu  
 420 425 430

```

Gly Asn Leu Val Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn
  435                      440                      445
Leu Leu Ser Lys Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro
  450                      455                      460
His Val His Val Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg
  465                      470                      475                      480
Leu Thr Gln Tyr Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser
  485                      490                      495
Glu Glu Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val
  500                      505                      510
His Tyr His Cys Ser Gly Ala Pro Ala Ala Pro Leu Gln
  515                      520                      525

```

<210> 1330  
 <211> 205  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1330
Asn Arg Arg Thr Val Lys Met Leu Leu Glu Leu Ser Glu Glu His Lys
  1                      5                      10                      15
Glu His Leu Ala Phe Leu Pro Gln Val Asp Ser Ala Val Val Ala Glu
  20                      25                      30
Phe Gly Arg Ile Ala Val Glu Phe Leu Arg Arg Gly Ala Asn Pro Lys
  35                      40                      45
Ile Tyr Glu Gly Ala Ala Arg Lys Leu Asn Val Ser Ser Asp Thr Val
  50                      55                      60
Gln His Gly Val Glu Gly Leu Thr Tyr Leu Leu Thr Glu Ser Ser Lys
  65                      70                      75                      80
Leu Met Ile Ser Glu Leu Asp Phe Gln Asp Ser Val Phe Val Leu Gly
  85                      90                      95
Phe Ser Glu Glu Leu Asn Lys Leu Leu Leu Gln Leu Tyr Leu Asp Asn
  100                     105                     110
Arg Lys Glu Ile Arg Thr Ile Leu Ser Glu Leu Ala Pro Ser Leu Pro
  115                     120                     125
Ser Tyr His Asn Leu Glu Trp Arg Leu Asp Val Gln Leu Ala Ser Arg
  130                     135                     140
Ser Leu Arg Gln Gln Ile Lys Pro Ala Val Thr Ile Lys Leu His Leu
  145                     150                     155                     160
Asn Gln Asn Gly Asp His Asn Thr Lys Val Leu Gln Thr Asp Pro Ala
  165                     170                     175
Thr Leu Leu His Leu Val Gln Gln Leu Glu Gln Ala Leu Glu Glu Met
  180                     185                     190
Lys Thr Asn His Cys Arg Arg Val Val Arg Asn Ile Lys
  195                     200                     205

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<210> 1331  
 <211> 78  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1331
Gly Thr Ser Ile Tyr Leu Ala His Arg Val Ala Arg Ala Trp Glu Leu
  1                      5                      10                      15

```

Ala Gln Phe Ile His His Thr Ser Lys Lys Ala Asp Val Val Leu Ala  
 20 25 30  
 Cys Gly Asp Ser Ile Val His Pro Glu Asp Leu Ile Cys Cys Pro Leu  
 35 40 45  
 Thr Gly Arg Ser Cys Leu Cys Asp Val His Leu Leu Ser Ser Leu Leu  
 50 55 60  
 Ala Arg Leu Gly Arg Gly Tyr Ala Val Ser Leu Thr Asn Leu  
 65 70 75 78

<210> 1332  
 <211> 274  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1332  
 Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp  
 1 5 10 15  
 Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro  
 20 25 30  
 Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg  
 35 40 45  
 Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser  
 50 55 60  
 Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg  
 65 70 75 80  
 Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu  
 85 90 95  
 Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys  
 100 105 110  
 Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His  
 115 120 125  
 Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr  
 130 135 140  
 Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala  
 145 150 155 160  
 Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys  
 165 170 175  
 Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu  
 180 185 190  
 Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp  
 195 200 205  
 Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val  
 210 215 220  
 Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala  
 225 230 235 240  
 Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys  
 245 250 255  
 Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly  
 260 265 270  
 Val Asp  
 274

<210> 1333  
 <211> 157  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1333
Ser Thr Asp Gly Asn Gly Ala Glu Arg Leu Phe Ala Glu Leu Arg Lys
1      5      10      15
Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val
20      25      30
Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg
35      40      45
Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu
50      55      60
Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe
65      70      75      80
Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln
85      90      95
Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser
100     105     110
Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile
115     120     125
Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly
130     135     140
Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu
145     150     155     157

```

<210> 1334

<211> 193

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(193)

<223> X = any amino acid or stop code

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<400> 1334
Arg Asn Met Lys Leu His Tyr Val Ala Val Leu Thr Leu Ala Ile Leu
1      5      10      15
Met Phe Leu Thr Trp Leu Pro Glu Ser Leu Ser Cys Asn Lys Ala Leu
20      25      30
Cys Ala Ser Asp Val Ser Lys Cys Leu Ile Gln Glu Leu Cys Gln Cys
35      40      45
Arg Pro Gly Glu Gly Asn Cys Ser Cys Cys Lys Glu Cys Met Leu Cys
50      55      60
Leu Gly Ala Leu Trp Asp Glu Cys Cys Asp Cys Val Gly Met Cys Asn
65      70      75      80
Pro Arg Asn Tyr Ser Asp Thr Pro Pro Thr Ser Lys Ser Thr Val Glu
85      90      95
Glu Leu His Glu Pro Ile Pro Ser Leu Phe Arg Ala Leu Thr Glu Gly
100     105     110
Asp Thr Gln Leu Asn Trp Asn Ile Val Ser Phe Pro Val Ala Glu Glu
115     120     125
Leu Ser His His Glu Asn Leu Val Ser Phe Leu Glu Thr Val Asn Gln
130     135     140
Pro His His Gln Asn Val Ser Val Pro Ser Asn Asn Val His Ala Pro
145     150     155     160
Tyr Ser Ser Asp Lys Glu Xaa Leu Pro Thr Val Asp Phe Phe His Ser
165     170     175
Ala Pro Ser Cys Gly Leu Ser Met Xaa Ser Ile Ile Phe Phe Glu Glu

```

Thr 180 185 190  
 193  
  
 <210> 1335  
 <211> 179  
 <212>Amino acid  
 <213> Homo sapiens  
  
  
 <400> 1335  
 Val Gly Gly Val Pro Thr Trp Leu Glu Gly Cys Gly Ser Gly Asn Pro  
 1 5 10 15  
 Ser Pro Arg Ser Gly Gly Gly Pro Gly Ala Arg Leu Thr Leu Pro Ala  
 20 25 30  
 Leu Gln Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val  
 35 40 45  
 Cys Leu His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro  
 50 55 60  
 Lys Glu Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg  
 65 70 75 80  
 Ser Phe Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu  
 85 90 95  
 Ala Phe Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr  
 100 105 110  
 Gly Ile Lys Val Val Met Asn Thr Asp Leu Gly Val Gly Pro Ile Arg  
 115 120 125  
 Asp Val Leu His His Ile Tyr Ser Ala Leu Tyr Val Glu Leu Val Val  
 130 135 140  
 Lys Asn Pro Leu Cys Pro Leu Gly Gln Thr Val Gln Ser Glu Leu Phe  
 145 150 155 160  
 Arg Ser Arg Leu Asp Ser Tyr Val Arg Ser Leu Pro Phe Phe Ser Ala  
 165 170 175  
 Arg Ala Gly  
 179

<210> 1336  
 <211> 236  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1336  
 Pro Gly Leu Ser Gln Glu Pro Ser Gly Ser Met Glu Thr Val Val Ile  
 1 5 10 15  
 Val Ala Ile Gly Val Leu Ala Thr Ile Phe Leu Ala Ser Phe Ala Ala  
 20 25 30  
 Leu Val Leu Val Cys Arg Gln Arg Tyr Cys Arg Pro Arg Asp Leu Leu  
 35 40 45  
 Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp Leu Ile Gly Ala Met Glu  
 50 55 60  
 Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu Asp Asp Val Val Ile Thr  
 65 70 75 80  
 Asn Pro His Ile Glu Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp  
 85 90 95  
 Ala Ser Gly Leu Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His



Thr	Leu	Thr	100	Glu	Lys	Leu	Val	Ala	Met	Thr	Met	Gly	Ser	Gly	Ala	Lys
Met	Lys	Thr	115	Ser	Ala	Ser	Val	Ser	Asp	Ile	Ile	Val	Val	Ala	Lys	Arg
Ile	Ser	Pro	130	Arg	Val	Asp	Asp	Val	Val	Lys	Ser	Met	Tyr	Pro	Pro	Leu
Asp	Pro	Lys	145	Leu	Leu	Asp	Ala	Arg	Thr	Thr	Ala	Leu	Leu	Leu	Ser	Val
Ser	His	Leu	165	Val	Leu	Val	Thr	Arg	Asn	Ala	Cys	His	Leu	Thr	Gly	Gly
Leu	Asp	Trp	180	Ile	Asp	Gln	Ser	Leu	Ser	Ala	Ala	Glu	Glu	His	Leu	Glu
Val	Leu	Arg	195	Glu	Ala	Ala	Leu	Ala	Ser	Glu	Pro	Asp	Lys	Gly	Leu	Pro
Gly	Pro	Glu	210	Gly	Phe	Leu	Gln	Glu	Gln	Ser	Ala	Ile				
			225			230						235	236			

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<210> 1337
<211> 161
<212> Amino acid
<213> Homo sapiens
```

[illegible]

```
<210> 1338
<211> 200
<212> Amino acid
<213> Homo sapiens
```

<400> 1338  
Pro Ala Ser Arg Pro Leu Leu Gly Pro Asp Thr Gly Ser Val Ala Asn

```

1           5           10           15
Ile Phe Lys Gly Leu Val Ile Leu Pro Glu Met Ser Leu Val Ile Arg
      20           25           30
Asn Leu Gln Arg Val Ile Pro Ile Arg Arg Ala Pro Leu Arg Ser Lys
      35           40           45
Ile Glu Ile Val Arg Arg Ile Leu Gly Val Gln Lys Phe Asp Leu Gly
      50           55           60
Ile Ile Cys Val Asp Asn Lys Asn Ile Gln His Ile Asn Arg Ile Tyr
      65           70           75           80
Arg Asp Arg Asn Val Pro Thr Asp Val Leu Ser Phe Pro Phe His Glu
      85           90           95
His Leu Lys Ala Gly Glu Phe Pro Gln Pro Asp Phe Pro Asp Asp Tyr
      100          105          110
Asn Leu Gly Asp Ile Phe Leu Gly Val Glu Tyr Ile Phe His Gln Cys
      115          120          125
Lys Glu Asn Glu Asp Tyr Asn Asp Val Leu Thr Val Thr Ala Thr His
      130          135          140
Gly Leu Cys His Leu Leu Gly Phe Thr His Gly Thr Glu Ala Glu Trp
      145          150          155          160
Gln Gln Met Phe Gln Lys Glu Lys Ala Val Leu Asp Glu Leu Gly Arg
      165          170          175
Arg Thr Gly Thr Arg Leu Gln Pro Leu Thr Pro Gly Pro Leu Pro Glu
      180          185          190
Gly Ala Glu Gly Arg Val Pro Phe
      195          200

```

&lt;210&gt; 1339

&lt;211&gt; 267

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1339

```

Leu Arg Asn Ala Leu Asp Val Leu His Arg Glu Val Pro Arg Val Leu
1           5           10           15
Val Asn Leu Val Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe
      20           25           30
Leu Gly Asn Pro Asp Lys Cys Pro Val Gln Gln Ala Met Leu Glu Pro
      35           40           45
Leu Gly Ser Lys Thr Glu Thr Leu Asp Leu Arg Ala Glu Met Pro Ile
      50           55           60
Thr Cys Pro Thr Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser
      65           70           75           80
Asn Tyr Thr Tyr Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp
      85           90           95
Phe Leu Cys Thr Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val
      100          105          110
His Gln Leu Arg Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp
      115          120          125
Ser Leu Thr Thr Ala Val Gly Ala Arg Pro Asn Asn Ser Ser Asp Leu
      130          135          140
Pro Thr Ser Trp Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn
      145          150          155          160
Leu Glu Thr His Thr Thr Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro
      165          170          175
Tyr Leu Leu Gly Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu
      180          185          190
Asn Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala
      195          200          205
Trp Asp Leu Val Glu Arg Met Lys Asn Ser Pro Asp Ile Asn Leu Glu

```

210	215	220
Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Gly Asn Asp Leu Cys		
225	230	235
His Tyr Cys Glu Asn Pro Glu Ala His Leu Ala Thr Glu Tyr Val Gln		240
	245	250
His Ile Gln Gln Ala Leu Asp Ile Leu Ser Glu		255
260	265	267

&lt;210&gt; 1340

&lt;211&gt; 286

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1340

Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro		
1	5	10
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala		15
	20	25
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser		30
	35	40
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln		45
	50	55
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val		60
	65	70
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Gly Pro Leu Glu		75
	85	90
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val		95
	100	105
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp		110
	115	120
Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val		125
	130	135
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala		140
	145	150
Leu Met Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly		155
	165	170
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp		175
	180	185
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln		190
	195	200
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp		205
	210	215
Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val		220
	225	230
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys		235
	245	250
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln		255
	260	265
Glu Glu Gln Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg		270
	275	280
		285
		286

&lt;210&gt; 1341

&lt;211&gt; 233

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1341  
 Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly  
 1 5 10 15  
 Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu  
 20 25 30  
 Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile  
 35 40 45  
 Gln Arg Glu Glu Glu Lys Val Lys Arg Ser Val Lys Asp Ala Ala Lys  
 50 55 60  
 Lys Gly Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg  
 65 70 75 80  
 Ser Arg Lys Ala Val Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn  
 85 90 95  
 Ser Val Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala  
 100 105 110  
 Gly Ser Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu  
 115 120 125  
 Val Lys Ile Pro Glu Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu  
 130 135 140  
 Met Met Lys Ala Gly Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu  
 145 150 155 160  
 Ser Met Asp Asp Gln Glu Glu Met Glu Glu Ala Glu Met Glu Ile  
 165 170 175  
 Asp Arg Ile Leu Phe Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro  
 180 185 190  
 Ser Lys Val Thr Asp Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met  
 195 200 205  
 Ala Ala Ser Glu Asp Glu Glu Glu Glu Glu Ala Leu Glu Ala Met  
 210 215 220  
 Gln Ser Arg Leu Ala Thr Leu Arg Ser  
 225 230 233

<210> 1342  
 <211> 150  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1342  
 Arg Trp Asn Ser Ile Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val  
 1 5 10 15  
 Met Ala Gly Val Ile Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys  
 20 25 30  
 Met Val Lys Gln Val Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro  
 35 40 45  
 Tyr Gly Cys His Cys Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala  
 50 55 60  
 Thr Asp Trp Cys Cys Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys  
 65 70 75 80  
 Thr Gln Gly Cys Gly Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser  
 85 90 95  
 Gln Gly Asn Ile His Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln  
 100 105 110  
 Leu Cys Ala Cys Asp Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu  
 115 120 125  
 Asp Thr Tyr Gln Lys Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg  
 130 135 140  
 Gly Gln Thr Pro Gly Cys

145

150

<210> 1343  
 <211> 127  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1343  
 Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe  
 1 5 10 15  
 Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr  
 20 25 30  
 Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly  
 35 40 45  
 Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser  
 50 55 60  
 Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala  
 65 70 75 80  
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln  
 85 90 95  
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro  
 100 105 110  
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe  
 115 120 125 127

<210> 1344  
 <211> 126  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1344  
 Leu Pro Leu Thr Leu Leu Leu Ala Ala Pro Phe Ala His Leu Leu Leu  
 1 5 10 15  
 Pro Pro Gly His Asp Gln Ser Pro Cys Trp His Pro Gly Pro Ala Leu  
 20 25 30  
 Ser Pro Gly Thr Leu Gly Pro Leu Ser Trp Ala Met Ala Asn Ser Gly  
 35 40 45  
 Leu Gln Leu Leu Gly Tyr Phe Leu Ala Leu Gly Gly Trp Val Gly Ile  
 50 55 60  
 Ile Ala Ser Thr Ala Leu Pro Gln Trp Lys Gln Ser Ser Tyr Ala Gly  
 65 70 75 80  
 Asp Ala Ser Ile Gln Leu Arg Ser Lys Val Phe Val Leu Glu Ser Glu  
 85 90 95  
 Trp Gly Gly Asp Ser Leu Gly Leu Pro Arg Asp Cys Gly Trp Ser Cys  
 100 105 110  
 Leu Leu His Ser Ala Val Arg Ser Glu Lys Gly Phe Trp Ser  
 115 120 125 126

<210> 1345  
 <211> 328  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1345  
 Asp Pro Arg Val Arg Pro Pro Leu Leu Gln Pro Pro Pro Pro Leu Leu  
 1 5 10 15  
 Pro Arg Leu Val Ile Leu Lys Met Ala Pro Leu Asp Leu Asp Lys Tyr  
 20 25 30  
 Val Glu Ile Ala Arg Leu Cys Lys Tyr Leu Pro Glu Asn Asp Leu Lys  
 35 40 45  
 Arg Leu Cys Asp Tyr Val Cys Asp Leu Leu Leu Glu Glu Ser Asn Val  
 50 55 60  
 Gln Pro Val Ser Thr Pro Val Thr Val Cys Gly Asp Ile His Gly Gln  
 65 70 75 80  
 Phe Tyr Asp Leu Cys Glu Leu Phe Arg Thr Gly Gly Gln Val Pro Asp  
 85 90 95  
 Thr Asn Tyr Ile Phe Met Gly Asp Phe Val Asp Arg Gly Tyr Tyr Ser  
 100 105 110  
 Leu Glu Thr Phe Thr Tyr Leu Leu Ala Leu Lys Ala Lys Trp Pro Asp  
 115 120 125  
 Arg Ile Thr Leu Leu Arg Gly Asn His Glu Ser Arg Gln Ile Thr Gln  
 130 135 140  
 Val Tyr Gly Phe Tyr Asp Glu Cys Gln Thr Lys Tyr Gly Asn Ala Asn  
 145 150 155 160  
 Ala Trp Arg Tyr Cys Thr Lys Val Phe Asp Met Leu Thr Val Ala Ala  
 165 170 175  
 Leu Ile Asp Glu Gln Ile Leu Cys Val His Gly Gly Leu Ser Pro Asp  
 180 185 190  
 Ile Lys Thr Leu Asp Gln Ile Arg Thr Ile Glu Arg Asn Gln Glu Ile  
 195 200 205  
 Pro His Lys Gly Ala Phe Cys Asp Leu Val Trp Ser Asp Pro Glu Asp  
 210 215 220  
 Val Asp Thr Trp Ala Ile Ser Pro Arg Gly Ala Gly Trp Leu Phe Gly  
 225 230 235 240  
 Ala Lys Val Thr Asn Glu Phe Val His Ile Asn Asn Leu Lys Leu Ile  
 245 250 255  
 Cys Arg Ala His Gln Leu Val His Glu Gly Tyr Lys Phe Met Phe Asp  
 260 265 270  
 Glu Lys Leu Val Thr Val Trp Ser Ala Pro Asn Tyr Cys Tyr Arg Cys  
 275 280 285  
 Gly Asn Ile Ala Ser Ile Met Val Phe Lys Asp Val Asn Thr Arg Glu  
 290 295 300  
 Pro Lys Leu Phe Arg Ala Val Pro Asp Ser Glu Arg Val Ile Pro Pro  
 305 310 315 320  
 Arg Thr Thr Thr Pro Tyr Phe Leu  
 325 328

<210> 1346  
 <211> 253  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1346  
 Ser Phe Ala Gly Ala Ala Ala Arg Pro Ser Thr Pro Pro Ala Ser Gly  
 1 5 10 15  
 Arg Gly Ala Ala Pro Gly Arg Pro Gly Pro Ser Pro Met Asp Leu Arg  
 20 25 30  
 Ala Gly Asp Ser Trp Gly Met Leu Ala Cys Leu Cys Thr Val Leu Trp

```

      35              40              45
His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro
 50              55              60
Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His
 65              70              75              80
Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro
      85              90              95
Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu
 100              105              110
Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg Ser Leu Asn Asp Lys
 115              120              125
Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr
 130              135              140
Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser
 145              150              155              160
Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala
      165              170              175
Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly
 180              185              190
Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His Ser Asp Phe Leu Gln
 195              200              205
Lys Met Asp Asp Phe Trp Leu Lys Glu Leu Gln Thr Trp Leu Trp
 210              215              220
Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys Lys Met Gln Pro Pro
 225              230              235              240
Ala Ala Ala Val Thr Leu His Leu Gly Ala His Gly Phe
      245              250              253

```

&lt;210&gt; 1347

&lt;211&gt; 195

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1347

```

Ile Lys Ile Ser Leu Lys Lys Arg Ser Met Ser Gly Ile Ser Gly Cys
 1              5              10              15
Pro Phe Phe Leu Trp Gly Leu Leu Ala Leu Leu Gly Leu Ala Leu Val
      20              25              30
Ile Ser Leu Ile Phe Asn Ile Ser His Tyr Val Glu Lys Gln Arg Gln
      35              40              45
Asp Lys Met Tyr Ser Tyr Ser Ser Asp His Thr Arg Val Asp Glu Tyr
 50              55              60
Tyr Ile Glu Asp Thr Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser
 65              70              75              80
Glu Pro Met Asp Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu
      85              90              95
Lys Ser Val Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr
 100              105              110
Asn Glu Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly
 115              120              125
Lys Arg Arg Lys Pro Arg Lys Gln Asn Thr His Phe Ser Asp Lys Asp
 130              135              140
Gly Asp Glu Gln Leu His Ala Ile Asp Ala Ser Val Ser Lys Thr Thr
 145              150              155              160
Leu Val Asp Ser Phe Ser Pro Glu Ser Gln Ala Val Glu Glu Asn Ile
      165              170              175
His Asp Asp Pro Ile Arg Leu Phe Gly Leu Ile Arg Ala Lys Arg Glu
 180              185              190
Pro Ile Asn

```

195

<210> 1348  
 <211> 268  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1348  
 Val Glu Phe His Pro Gln Arg Ala Arg Ala Gly Ala Arg Ala Pro Ser  
 1 5 10 15  
 Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala  
 20 25 30  
 Leu Leu Phe Pro Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser  
 35 40 45  
 Lys Glu Tyr Arg Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu  
 50 55 60  
 Met Gln Asp Thr Ser Arg Leu Leu Asp Pro Tyr Ile Arg Ile Gln Gly  
 65 70 75 80  
 Leu Asp Val Pro Lys Leu Arg Glu His Cys Arg Glu Arg Pro Gly Ala  
 85 90 95  
 Phe Pro Ser Glu Glu Thr Leu Arg Gly Leu Gly Arg Arg Cys Phe Leu  
 100 105 110  
 Gln Thr Leu Asn Ala Thr Leu Gly Cys Val Leu His Arg Leu Ala Asp  
 115 120 125  
 Leu Glu Gln Arg Leu Pro Lys Ala Gln Asp Leu Glu Arg Ser Gly Leu  
 130 135 140  
 Asn Ile Glu Asp Leu Glu Lys Leu Gln Met Ala Arg Pro Asn Ile Leu  
 145 150 155 160  
 Gly Leu Arg Asn Asn Ile Tyr Cys Met Ala Gln Leu Leu Asp Asn Ser  
 165 170 175  
 Asp Thr Ala Glu Pro Thr Lys Ala Gly Arg Gly Ala Ser Gln Pro Pro  
 180 185 190  
 Thr Pro Thr Pro Ala Ser Asp Ala Phe Gln Arg Lys Leu Glu Gly Cys  
 195 200 205  
 Arg Phe Leu His Gly Tyr His Arg Phe Met His Ser Val Gly Arg Val  
 210 215 220  
 Phe Ser Lys Trp Gly Glu Ser Pro Asn Arg Ser Arg Arg His Ser Pro  
 225 230 235 240  
 His Gln Ala Leu Arg Lys Gly Val Arg Arg Thr Arg Pro Ser Arg Lys  
 245 250 255  
 Gly Lys Arg Leu Met Thr Arg Gly Gln Leu Pro Arg  
 260 265 268

<210> 1349  
 <211> 138  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1349  
 Asp Phe Pro Gly Arg Arg Phe Arg Leu Val Trp Leu Leu Val Leu Arg  
 1 5 10 15  
 Leu Pro Trp Arg Val Pro Gly Gln Leu Asp Pro Thr Thr Gly Arg Arg  
 20 25 30  
 Phe Ser Glu His Lys Leu Cys Ala Asp Asp Glu Cys Ser Met Leu Met



```

      35              40              45
Tyr Arg Gly Glu Ala Leu Glu Asp Phe Thr Gly Pro Asp Cys Arg Phe
   50              55              60
Val Asn Phe Lys Lys Gly Asp Pro Val Tyr Val Tyr Tyr Lys Leu Ala
   65              70              75              80
Arg Gly Trp Pro Glu Val Trp Ala Gly Ser Val Gly Arg Thr Phe Gly
      85              90              95
Tyr Phe Pro Lys Asp Leu Ile Gln Val Val His Glu Tyr Thr Lys Glu
      100              105              110
Glu Leu Gln Val Pro Thr Asn Glu Thr Asp Phe Val Cys Phe Asp Gly
      115              120              125
Gly Arg Asp Asp Phe His Asn Tyr Asn Val
      130              135              138

```

&lt;210&gt; 1350

&lt;211&gt; 236

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

```

      <400> 1350
Ser Pro Leu Gly Lys Glu Gly Gln Glu Glu Val Arg Val Lys Ile Lys
   1              5              10              15
Asp Leu Asn Glu His Ile Val Cys Cys Leu Cys Ala Gly Tyr Phe Val
      20              25              30
Asp Ala Thr Thr Ile Thr Glu Cys Leu His Thr Phe Cys Lys Ser Cys
      35              40              45
Ile Val Lys Tyr Leu Gln Thr Ser Lys Tyr Cys Pro Met Cys Asn Ile
      50              55              60
Lys Ile His Glu Thr Gln Pro Leu Leu Asn Leu Lys Leu Asp Arg Val
      65              70              75              80
Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Asp Ser Glu
      85              90              95
Glu Lys Arg Ile Arg Glu Phe Tyr Gln Ser Arg Gly Leu Asp Arg Val
      100              105              110
Thr Gln Pro Thr Gly Glu Glu Pro Ala Leu Ser Asn Leu Gly Leu Pro
      115              120              125
Phe Ser Ser Phe Asp His Ser Lys Ala His Tyr Tyr Arg Tyr Asp Glu
      130              135              140
Gln Leu Asn Leu Cys Leu Glu Arg Leu Ser Ser Gly Lys Asp Lys Asn
      145              150              155              160
Lys Ser Val Leu Gln Asn Lys Tyr Val Arg Cys Ser Val Arg Ala Glu
      165              170              175
Val Arg His Leu Arg Arg Val Leu Cys His Arg Leu Met Leu Asn Pro
      180              185              190
Gln His Val Gln Leu Leu Phe Asp Asn Glu Val Leu Pro Asp His Met
      195              200              205
Thr Met Lys Gln Ile Trp Leu Ser Arg Trp Phe Gly Lys Pro Ser Pro
      210              215              220
Leu Leu Leu Gln Tyr Ser Val Lys Glu Lys Arg Arg
      225              230              235              236

```

&lt;210&gt; 1351

&lt;211&gt; 178

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1351  
 Leu Trp Trp Tyr Ser Ala His Ala Ala Val Asp Ala Met Met Asp Val  
 1 5 10 15  
 Phe Gly Val Gly Phe Pro Ser Lys Val Pro Trp Lys Lys Met Ser Ala  
 20 25 30  
 Glu Glu Leu Glu Asn Gln Tyr Cys Pro Ser Arg Trp Val Val Arg Leu  
 35 40 45  
 Gly Ala Glu Glu Ala Leu Arg Thr Tyr Ser Gln Ile Gly Ile Glu Ala  
 50 55 60  
 Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His Val Pro Tyr  
 65 70 75 80  
 Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro Asp Glu Ser  
 85 90 95  
 Ser Glu Ala Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His  
 100 105 110  
 Val Pro Tyr Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro  
 115 120 125  
 Asp Glu Ser Ser Glu Ala Leu Pro Phe Phe Leu Phe Phe His Gly Gly  
 130 135 140  
 Tyr Trp Gln Ser Gly Arg His Pro Gly Pro His Gly Arg Pro Gly Asp  
 145 150 155 160  
 Pro Gln Arg Cys Val Cys Pro Glu Ala Val Ser Lys Gln Gln Ala Phe  
 165 170 175  
 Ser Trp  
 178

<210> 1352  
 <211> 284  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1352  
 Gly Val Arg Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro  
 1 5 10 15  
 Pro Glu Leu Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn  
 20 25 30  
 Ser Arg Met Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu  
 35 40 45  
 Leu Leu Tyr Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly  
 50 55 60  
 Cys Gly Thr Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr  
 65 70 75 80  
 Trp Val Gly Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp  
 85 90 95  
 Arg Glu Ile Glu Gly Asp Leu Leu Leu Gly Asp Met Gly Gln Gly Ile  
 100 105 110  
 Pro Phe Lys Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val  
 115 120 125  
 Gln Trp Leu Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg  
 130 135 140  
 Leu Tyr Cys Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser  
 145 150 155 160  
 Arg Ala Val Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu  
 165 170 175  
 Ile Thr Thr Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val  
 180 185 190  
 Asp Tyr Pro Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe

```

      195                200                205
Ser Gly Pro Ser Thr Phe Ile Pro Glu Gly Leu Ser Glu Asn Gln Asp
  210                215                220
Glu Val Glu Pro Arg Glu Ser Val Phe Thr Asn Glu Arg Phe Pro Leu
  225                230                235                240
Arg Met Ser Arg Arg Gly Met Val Arg Lys Ser Arg Ala Trp Val Leu
      245                250                255
Glu Lys Lys Glu Arg His Arg Arg Gln Gly Arg Glu Val Arg Pro Asp
      260                265                270
Thr Gln Tyr Thr Gly Arg Lys Arg Lys Pro Arg Phe
      275                280                284

```

```

<210> 1353
<211> 363
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1353
Thr Leu Ile Cys Arg Met Ala Gly Cys Gly Glu Ile Asp His Ser Ile
  1           5           10           15
Asn Met Leu Pro Thr Asn Arg Lys Ala Asn Glu Ser Cys Ser Asn Thr
  20           25           30
Ala Pro Ser Leu Thr Val Pro Glu Cys Ala Ile Cys Leu Gln Thr Cys
  35           40           45
Val His Pro Val Ser Leu Pro Cys Lys His Val Phe Cys Tyr Leu Cys
  50           55           60
Val Lys Gly Ala Ser Trp Leu Gly Lys Arg Cys Ala Leu Cys Arg Gln
  65           70           75           80
Glu Ile Pro Glu Asp Phe Leu Asp Lys Pro Thr Leu Leu Ser Pro Glu
      85           90           95
Glu Leu Lys Ala Ala Ser Arg Gly Asn Gly Glu Tyr Ala Trp Tyr Tyr
  100          105          110
Glu Gly Arg Asn Gly Trp Trp Gln Tyr Asp Glu Arg Thr Ser Arg Glu
  115          120          125
Leu Glu Asp Ala Phe Ser Lys Gly Lys Lys Asn Thr Glu Met Leu Ile
  130          135          140
Ala Gly Phe Leu Tyr Val Ala Asp Leu Glu Asn Met Val Gln Tyr Arg
  145          150          155          160
Arg Asn Glu His Gly Arg Arg Arg Lys Ile Lys Arg Asp Ile Ile Asp
      165          170          175
Ile Pro Lys Lys Gly Val Ala Gly Leu Arg Leu Asp Cys Asp Ala Asn
  180          185          190
Thr Val Asn Leu Ala Arg Glu Ser Ser Ala Asp Gly Ala Asp Ser Val
  195          200          205
Ser Ala Gln Ser Gly Ala Ser Val Gln Pro Leu Val Ser Ser Val Arg
  210          215          220
Pro Leu Thr Ser Val Asp Gly Gln Leu Thr Ser Pro Ala Thr Pro Ser
  225          230          235          240
Pro Asp Ala Ser Thr Ser Leu Glu Asp Ser Phe Ala His Leu Gln Leu
      245          250          255
Ser Gly Asp Asn Thr Ala Glu Arg Ser His Arg Gly Glu Gly Glu Glu
  260          265          270
Asp His Glu Ser Pro Ser Ser Gly Arg Val Pro Ala Pro Asp Thr Ser
      275          280          285
Ile Glu Glu Thr Glu Ser Asp Ala Ser Ser Asp Ser Glu Asp Val Ser
  290          295          300
Ala Val Val Ala Gln His Ser Leu Thr Gln Gln Arg Leu Leu Val Ser
  305          310          315          320
Asn Ala Asn Gln Thr Val Pro Asp Arg Ser Asp Arg Ser Gly Thr Asp

```

Arg	Ser	Val	Ala	Gly	Gly	Gly	Thr	Val	Ser	Val	Ser	Val	Arg	Ser	Arg
			340					345					350		
Arg	Pro	Asp	Gly	Gln	Cys	Thr	Val	Thr	Glu	Val					
		355					360			363					

```
<210> 1354
<211> 368
<212> Amino acid
<213> Homo sapiens
```

<400> 1354																	
Gly	Ala	Thr	Pro	Leu	Gly	Ser	Val	Gly	Gly	Arg	Thr	Gly	Lys	Met	Asp		
1				5				10					15				
Ala	Ala	Thr	Leu	Thr	Tyr	Asp	Thr	Leu	Arg	Phe	Ala	Glu	Phe	Glu	Asp		
			20					25					30				
Phe	Pro	Glu	Thr	Ser	Glu	Pro	Val	Trp	Ile	Leu	Gly	Arg	Lys	Tyr	Ser		
			35					40					45				
Ile	Phe	Thr	Glu	Lys	Asp	Glu	Ile	Leu	Ser	Asp	Val	Ala	Ser	Arg	Leu		
	50					55					60						
Trp	Phe	Thr	Tyr	Arg	Lys	Asn	Phe	Pro	Ala	Ile	Gly	Gly	Thr	Gly	Pro		
65					70						75				80		
Thr	Ser	Asp	Thr	Gly	Trp	Gly	Cys	Met	Leu	Arg	Cys	Gly	Gln	Met	Ile		
				85					90					95			
Phe	Ala	Gln	Ala	Leu	Val	Cys	Arg	His	Leu	Gly	Arg	Asp	Trp	Arg	Trp		
			100					105					110				
Thr	Gln	Arg	Lys	Arg	Gln	Pro	Asp	Ser	Tyr	Phe	Ser	Val	Leu	Asn	Ala		
			115				120						125				
Phe	Ile	Asp	Arg	Lys	Asp	Ser	Tyr	Tyr	Ser	Ile	His	Gln	Ile	Ala	Gln		
	130					135						140					
Met	Gly	Val	Gly	Glu	Gly	Lys	Ser	Ile	Gly	Gln	Trp	Tyr	Gly	Pro	Asn		
145					150					155					160		
Thr	Val	Ala	Gln	Val	Leu	Lys	Lys	Leu	Ala	Val	Phe	Asp	Thr	Trp	Ser		
			165						170						175		
Ser	Leu	Ala	Val	His	Ile	Ala	Met	Asp	Asn	Thr	Val	Val	Met	Glu	Glu		
			180					185					190				
Ile	Arg	Arg	Leu	Cys	Arg	Thr	Ser	Val	Pro	Cys	Ala	Gly	Ala	Thr	Ala		
			195				200					205					
Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys	Asn	Gly	Phe	Pro	Ala	Gly	Ala		
	210					215					220						
Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp	Arg	Pro	Leu	Val	Leu	Leu	Ile		
225					230						235				240		
Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile	Asn	Glu	Ala	Tyr	Val	Glu	Thr		
			245						250					255			
Leu	Lys	His	Cys	Phe	Met	Met	Pro	Gln	Ser	Leu	Gly	Val	Ile	Gly	Gly		
			260					265					270				
Lys	Pro	Asn	Ser	Ala	His	Tyr	Phe	Ile	Gly	Tyr	Val	Gly	Glu	Glu	Leu		
			275				280						285				
Ile	Tyr	Leu	Asp	Pro	His	Thr	Thr	Gln	Pro	Ala	Val	Glu	Pro	Thr	Asp		
	290					295						300					
Gly	Cys	Phe	Ile	Pro	Asp	Glu	Ser	Phe	His	Cys	Gln	His	Pro	Pro	Cys		
305					310					315					320		
Arg	Met	Ser	Ile	Ala	Glu	Leu	Asp	Pro	Ser	Ile							

<210> 1355  
 <211> 117  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1355  
 Pro Thr Thr Ser Asn Arg Ala Ile Thr Leu Thr Ala Trp Pro Lys Ile  
 1 5 10 15  
 Pro Phe Leu Gly Ile Cys Glu Ala Lys Asn Pro Arg Ser Glu Asn Met  
 20 25 30  
 Arg Leu Ala Thr Ile Leu Glu Val Ala Cys His His Leu Gly Ser Gly  
 35 40 45  
 Pro Pro Pro Ser Trp Glu Leu Trp Glu Gln Gly Pro Pro Gly Asn Ser  
 50 55 60  
 Ser Arg Tyr Ile Glu Phe Leu Asn Lys His Thr Tyr Ile Lys Gly Thr  
 65 70 75 80  
 Leu Arg Val Tyr Thr Lys Lys Phe Cys Met Leu Val Ile Lys Ser Phe  
 85 90 95  
 Glu Ser Lys Ser Cys Val Cys Val Tyr Asp Phe Asp Ser Lys Ser Ser  
 100 105 110  
 Val Asn Val Thr Val  
 115 117

<210> 1356  
 <211> 126  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1356  
 Pro Arg Val Arg Phe Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala  
 1 5 10 15  
 Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile  
 20 25 30  
 Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys  
 35 40 45  
 Leu Glu Leu Asn Leu Tyr Lys Ile Ala Lys Leu Gln Thr Val Asn Tyr  
 50 55 60  
 Ile Ala Leu Val Val Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile  
 65 70 75 80  
 Cys Tyr Leu Leu Ile Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu  
 85 90 95  
 Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile  
 100 105 110  
 Thr Leu Ile Ile Phe Phe Leu Cys Phe Leu Pro Tyr His Thr  
 115 120 125 126

<210> 1357  
 <211> 222  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1357  
 Gly Arg His Trp Leu Gly Ser Ala Gln Leu Thr Asp Gly Gly Ser Ala  
 1 5 10 15  
 Arg Lys Pro Lys Met Ala Val Pro Ala Ala Leu Ile Leu Arg Glu Ser  
 20 25 30  
 Pro Ser Met Lys Lys Ala Val Ser Leu Ile Asn Ala Ile Asp Thr Gly  
 35 40 45  
 Arg Phe Pro Arg Leu Leu Thr Arg Ile Leu Gln Lys Leu His Leu Lys  
 50 55 60  
 Ala Glu Ser Ser Phe Ser Glu Glu Glu Glu Lys Leu Gln Ala Ala  
 65 70 75 80  
 Phe Ser Leu Glu Lys Gln Asp Leu His Leu Val Leu Glu Thr Ile Ser  
 85 90 95  
 Phe Ile Leu Glu Gln Ala Val Tyr His Asn Val Lys Pro Ala Ala Leu  
 100 105 110  
 Gln Gln Gln Leu Glu Asn Ile His Leu Arg Gln Asp Lys Ala Glu Ala  
 115 120 125  
 Phe Val Asn Thr Trp Ser Ser Met Gly Gln Glu Thr Val Glu Lys Phe  
 130 135 140  
 Arg Gln Arg Ile Leu Ala Pro Cys Lys Leu Glu Thr Val Gly Trp Gln  
 145 150 155 160  
 Leu Asn Leu Gln Met Ala His Ser Ala Gln Ala Lys Leu Lys Ser Pro  
 165 170 175  
 Gln Ala Val Leu Gln Leu Gly Val Asn Asn Glu Asp Ser Lys Ser Leu  
 180 185 190  
 Glu Lys Val Leu Val Glu Phe Ser His Lys Glu Leu Phe Asp Phe Tyr  
 195 200 205  
 Asn Lys Leu Glu Thr Ile Gln Ala Gln Leu Asp Ser Leu Thr  
 210 215 220 222

<210> 1358  
 <211> 116  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1358  
 Glu Ala Ser Ser Ala Lys Thr Lys Arg Lys Glu Glu Lys Gly Pro Lys  
 1 5 10 15  
 Ala Lys Met Lys Leu Met Val Leu Val Phe Thr Ile Gly Leu Thr Leu  
 20 25 30  
 Leu Leu Gly Val Gln Ala Met Pro Ala Asn Arg Leu Ser Cys Tyr Arg  
 35 40 45  
 Lys Ile Leu Lys Asp His Asn Cys His Asn Leu Pro Glu Gly Val Ala  
 50 55 60  
 Asp Leu Thr Gln Ile Asp Val Asn Val Gln Asp His Phe Trp Asp Gly  
 65 70 75 80  
 Lys Gly Cys Glu Met Ile Cys Tyr Cys Asn Phe Ser Glu Leu Leu Cys  
 85 90 95  
 Cys Pro Lys Asp Val Phe Phe Gly Pro Lys Ile Ser Phe Val Ile Pro  
 100 105 110  
 Cys Asn Asn Gln  
 115 116

<210> 1359

<211> 466  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1359  
 Lys Met Ala Glu Ala Val Phe His Ala Pro Lys Arg Lys Arg Arg Val  
 1 5 10 15  
 Tyr Glu Thr Tyr Glu Ser Pro Leu Pro Ile Pro Phe Gly Gln Asp His  
 20 25 30  
 Gly Pro Leu Lys Glu Phe Lys Ile Phe Arg Ala Glu Met Ile Asn Asn  
 35 40 45  
 Asn Val Ile Val Arg Asn Ala Glu Asp Ile Glu Gln Leu Tyr Gly Lys  
 50 55 60  
 Gly Tyr Phe Gly Lys Gly Ile Leu Ser Arg Ser Arg Pro Ser Phe Thr  
 65 70 75 80  
 Ile Ser Asp Pro Lys Leu Val Ala Lys Trp Lys Asp Met Lys Thr Asn  
 85 90 95  
 Met Pro Ile Ile Thr Ser Lys Arg Tyr Gln His Ser Val Glu Trp Ala  
 100 105 110  
 Ala Glu Leu Met Arg Arg Gln Gly Gln Asp Glu Ser Thr Val Arg Arg  
 115 120 125  
 Ile Leu Lys Asp Tyr Thr Lys Pro Leu Glu His Pro Pro Val Lys Arg  
 130 135 140  
 Asn Glu Glu Ala Gln Val His Asp Lys Leu Asn Ser Gly Met Val Ser  
 145 150 155 160  
 Asn Met Glu Gly Thr Ala Gly Gly Glu Arg Pro Ser Val Val Asn Gly  
 165 170 175  
 Asp Ser Gly Lys Ser Gly Gly Val Gly Asp Pro Arg Glu Pro Leu Gly  
 180 185 190  
 Cys Leu Gln Glu Gly Ser Gly Cys His Pro Thr Thr Glu Ser Phe Glu  
 195 200 205  
 Lys Ser Val Arg Glu Asp Ala Ser Pro Leu Pro His Val Cys Cys Cys  
 210 215 220  
 Lys Gln Asp Ala Leu Ile Leu Gln Arg Gly Leu His His Glu Asp Gly  
 225 230 235 240  
 Ser Gln His Ile Gly Leu Leu His Pro Gly Asp Arg Gly Pro Asp His  
 245 250 255  
 Glu Tyr Val Leu Val Glu Glu Ala Glu Cys Ala Met Ser Glu Arg Glu  
 260 265 270  
 Ala Ala Pro Asn Glu Glu Leu Val Gln Arg Asn Arg Leu Ile Cys Arg  
 275 280 285  
 Arg Asn Pro Tyr Arg Ile Phe Glu Tyr Leu Gln Leu Ser Leu Glu Glu  
 290 295 300  
 Ala Phe Phe Leu Val Tyr Ala Leu Gly Cys Leu Ser Ile Tyr Tyr Glu  
 305 310 315 320  
 Lys Glu Pro Leu Thr Ile Val Lys Leu Trp Lys Ala Phe Thr Val Val  
 325 330 335  
 Gln Pro Thr Phe Arg Thr Thr Tyr Met Ala Tyr His Tyr Phe Arg Ser  
 340 345 350  
 Lys Gly Trp Val Pro Lys Val Gly Leu Lys Tyr Gly Thr Asp Leu Leu  
 355 360 365  
 Leu Tyr Arg Lys Gly Pro Pro Phe Tyr His Ala Ser Tyr Ser Val Ile  
 370 375 380  
 Ile Glu Leu Val Asp Asp His Phe Glu Gly Ser Leu Arg Arg Pro Leu  
 385 390 395 400  
 Ser Trp Lys Ser Leu Ala Ala Leu Ser Arg Val Ser Val Asn Val Ser  
 405 410 415  
 Lys Glu Leu Met Leu Cys Tyr Leu Ile Lys Pro Ser Thr Met Thr Asp  
 420 425 430  
 Lys Glu Met Glu Ser Pro Glu Cys Met Lys Arg Ile Lys Val Gln Glu





370	375	380
Ser Pro Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser		
385	390	395
Leu Met Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met		400
	405	410
Arg Lys Ile		415
419		

<210> 1361  
 <211> 220  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1361

Arg Glu Gln Ile Leu Phe Ile Glu Ile Arg Asp Thr Ala Lys Gly Gly		
1	5	10
Glu Thr Glu Gln Pro Pro Ser Leu Ser Pro Leu His Gly Gly Arg Met		15
	20	25
Pro Glu Met Gly Glu Gly Ile Gln Ser Leu Ala Arg Glu Thr Gln Ser		30
	35	40
His Arg Gly Arg Arg Gln Gly Trp Asp Ala Thr Trp Val Thr Arg Cys		45
	50	55
Arg Glu Ser Leu Asn Arg Gly Gly Ala Gly Ala Gly Lys Arg Ala Gly		60
	65	70
Ala Leu Ala His His Val Phe Leu Ala Leu Ile Glu Pro Asn Leu Ala		75
	80	85
Glu Arg Glu Ala Ser Glu Glu Glu Val Lys Ala Cys Ser Asp Glu Thr		90
	95	100
Val Val Ala Asp Leu Leu Val Lys Val Val Tyr Val Leu Gly Ala Ile		105
	110	115
Leu Lys Ile Phe Leu Arg Glu Gly Asn Val Leu Asn Gln His Ser Gly		120
	125	130
Met Asp Ile Glu Lys Tyr Ser Glu His Tyr Gln His Asp His Ser Pro		135
	140	145
Gly Ala Glu Asp Asp Ala Ala Gly Gly Gln Leu Arg Pro Thr Ala Gln		150
	155	160
Glu Arg Arg His Lys Glu Gly Ser Arg Gly Ser Pro Arg Cys Lys Arg		165
	170	175
Ala Arg Lys Ala Val Gly Glu Ser Pro Gly Cys Pro Arg Pro Arg Val		180
	185	190
	195	200
Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val		205
	210	215
		220

<210> 1362  
 <211> 82  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1362

Gly Thr Arg Gly Cys Cys Arg Glu Gly Thr Ala Tyr Ala Lys Ala Tyr		
1	5	10
Gln Phe Met Ala Ser His Leu Ser Leu Gly Lys Pro Val Ser Thr Gly		15
	20	25
Ser Ile Pro Arg Phe Asn Lys Ala Leu Phe Asn Lys Gln Ala Lys Cys		30

```

      35              40              45
Lys Pro Asn His Tyr Ser Phe Ile Gly Leu Ser Met Leu Ser Pro Glu
  50              55              60
Asn Phe Ser Ile Gly Cys Lys Tyr Ser Val Trp Phe Ser Glu Thr Lys
  65              70              75              80
Gly Phe
      82

```

<210> 1363  
 <211> 143  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1363
Gly Ala Gln Gly Val Arg Val Gly Ile Gly Glu Val Gly Arg Val Gln
  1              5              10              15
Ala Pro Arg Val Ser Leu Leu His Ser Gln Gly Val Pro Arg Gly Gly
      20              25              30
Thr Gly Glu Ala Val Lys Glu Glu Gly Arg Gly Ser Ser Leu His Pro
      35              40              45
Pro Leu Pro Pro Gln Gly Leu Gly Glu Tyr Ala Ala Cys Gln Ser His
      50              55              60
Ala Phe Met Lys Gly Val Phe Thr Phe Val Thr Gly Thr Gly Met Ala
      65              70              75              80
Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro Leu Gln
      85              90              95
Trp Ser Leu Leu Val Ala Val Val Ala Gly Ser Val Val Ser Tyr Gly
      100              105              110
Val Thr Arg Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu Phe Leu
      115              120              125
Glu Thr Gly Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg Ser
      130              135              140              143

```

<210> 1364  
 <211> 194  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(194)  
 <223> X = any amino acid or stop code

```

      <400> 1364
Gly Thr Ser Glu Leu Leu Cys Ile Gln Arg Trp Asn Trp Gly Pro Ala
  1              5              10              15
Phe Pro Pro Arg Pro Gly Leu Ala Leu Ala Pro Thr Leu Gln Leu Leu
      20              25              30
Val Glu Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro
      35              40              45
Pro Pro His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro
      50              55              60
Ser Ala Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln
      65              70              75              80

```

```

Pro Gly Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln
      85          90          95
Asp Ser Asp Pro Arg Ser Pro Leu Gly Lys Asn Xaa Gly His Gly Trp
      100          105          110
Gln Val Gly Gln Gly Ser Asp Leu Gly Ser Pro Gln Pro Leu Pro Pro
      115          120          125
Ser Ala Ser His Leu Tyr Ser Ser Arg Ala Ser Arg Cys Ser Gln Pro
      130          135          140
Pro Cys Leu Ser Leu Pro Trp Phe Gly Val Arg Ser Ser Pro Ala Asn
      145          150          155
Thr Tyr His Val Pro Val Thr Ser Leu Cys Pro Ser Pro Ala Leu His
      160          165          170
Tyr Thr Ala Leu Gln Ala Gly Ile Ile Ser Thr Ser Gln Ala Arg Ala
      175          180          185          190
Pro Arg
      194

```

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<210> 1365
<211> 114
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(114)
<223> X = any amino acid or stop code

```

```

<400> 1365
Pro Leu Leu Leu Pro Arg Phe Ile Asp Ile Pro Cys Leu Leu Cys Tyr
 1          5          10          15
Leu Thr Gln Val Thr Pro Asp Asp Met Tyr Ala Lys Ala Phe Leu Ile
      20          25          30
Lys Pro Asn Thr Ala Ile Thr Gly Thr Asp Arg Arg Lys Leu Arg Ala
      35          40          45
Asp Glu Thr Thr Asp Phe Pro Thr Leu Gly Thr Asp Gln Ile Tyr Glu
      50          55          60
Leu Leu Pro Gly Lys Asp Glu Leu Asn Ile Val Lys Ser Asn Ala His
      65          70          75          80
Lys Arg Asp Ala Xaa Thr Ala Tyr Val Ser Gly Glu Asn His Ile Leu
      85          90          95
Ser Glu Pro Xaa Lys Asn Leu Tyr Pro Ala Val Asn Thr Leu Ser Ser
      100          105          110
Tyr Pro
      114

```

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<210> 1366
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1366
Ser Arg Gln Pro Pro Pro Leu Leu Thr Met Val Phe Leu Leu Glu Phe
 1          5          10          15
Leu Phe Leu Val Phe Phe Pro Gly Cys Val Asn Gln Leu Leu Leu Ser

```

				20					25					30					
Tyr	Pro	Trp	Gln	Gly	Gln	Gly	Thr	Ser	Leu	Trp	Ser	Ser	Leu	Ser	Phe				
				35				40					45						
His	Trp	Leu	Leu	Pro	Gln	Glu	Asp	Ser	Ser	Arg	Leu	Ser	Ile	Phe	Pro				
		50				55					60								
Leu	Arg	Ala	Gly	Ser	Pro	Pro	Gln	Pro	Ala	Gln	Ala	Pro	Gln	Arg	Ile				
65					70					75					80				

```
<210> 1367
<211> 301
<212> Amino acid
<213> Homo sapiens
```

<400> 1367																
Lys	Ser	Arg	Glu	Gln	5	Ser	Ser	Leu	Phe	Ala	Ala	Asp	Ala	Glu	Arg	Ser
1										10					15	
Trp	Gly	Gly	Lys	Ser	Cys	Cys	Leu	Leu	Arg	Trp	Arg	Phe	Val	Gly	Lys	
			20					25					30			
Ala	Ser	His	Phe	Pro	Arg	Leu	Leu	Pro	Leu	Pro	Gly	Glu	Glu	Arg	Pro	
		35					40					45				
Glu	Thr	Lys	Glu	Arg	Ala	Trp	Lys	Met	Glu	Gln	Thr	Trp	Thr	Arg	Asp	
	50					55					60					
Tyr	Phe	Ala	Glu	Asp	Asp	Gly	Glu	Met	Val	Pro	Arg	Thr	Ser	His	Thr	
65						70				75					80	
Ala	Ala	Ser	Val	Ser	Leu	Thr	Ala	Phe	Leu	Ser	Asp	Thr	Lys	Asp	Arg	
				85					90					95		
Gly	Pro	Pro	Val	Gln	Ser	Gln	Ile	Trp	Arg	Ser	Gly	Glu	Lys	Val	Pro	
			100					105					110			
Phe	Val	Gln	Thr	Tyr	Ser	Leu	Arg	Ala	Phe	Glu	Lys	Pro	Pro	Gln	Val	
		115				120						125				
Gln	Thr	Gln	Ala	Leu	Arg	Asp	Phe	Glu	Lys	His	Leu	Asn	Asp	Leu	Lys	
130					135					140						
Lys	Glu	Asn	Phe	Ser	Leu	Lys	Leu	Leu	Ile	Tyr	Phe	Leu	Glu	Glu	Arg	
145					150				155						160	
Met	Gln	Gln	Lys	Tyr	Glu	Ala	Ser	Arg	Glu	Asp	Ile	Tyr	Lys	Arg	Asn	
			165						170					175		
Thr	Glu	Leu	Lys	Val	Glu	Val	Glu	Ser	Leu	Lys	Arg	Glu	Leu	Gln	Asp	
		180						185					190			
Lys	Lys	Gln	His	Leu	Asp	Lys	Thr	Trp	Ala	Asp	Val	Glu	Asn	Leu	Asn	
		195					200				205					
Ser	Gln	Asn	Glu	Ala	Glu	Leu	Arg	Arg	Gln	Phe	Glu	Glu	Arg	Gln	Gln	
		210				215					220					
Glu	Met	Glu	His	Val	Tyr	Glu	Leu	Leu	Glu	Asn	Lys	Met	Gln	Leu	Leu	
225					230					235					240	
Gln	Glu	Glu	Ser	Arg	Leu	Ala	Lys	Asn	Glu	Ala	Ala	Arg	Met	Ala	Ala	
			245						250					255		
Leu	Val	Glu	Ala	Glu	Lys	Glu	Cys	Asn	Leu	Glu	Leu	Ser	Glu	Lys	Leu	
		260					265					270				
Lys	Gly	Val	Thr	Lys	Asn	Trp	Glu	Asp	Val	Pro	Gly	Asp	Gln	Val	Lys	
		275					280					285				
Pro	Asp	Gln	Tyr	Thr	Glu	Ala	Leu	Ala	Gln	Arg	Asp	Lys				
290					295					300		305				

<210> 1368  
<211> 308  
<212> Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(308)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1368

```

Thr Arg Arg Arg Gly Thr Thr Trp Arg Ser Pro Arg Pro Arg Arg Ala
 1           5           10           15
Ser Thr Ser Arg Pro Ser Thr Arg Pro Arg Gly Val Ala Ser Trp Pro
      20           25           30
Trp Glu Thr Ala Gly Thr Ala Thr Thr Gly Pro Gly Pro Ser Ala Arg
 35           40           45
Thr Arg Arg Arg Ala Ala Arg Arg Arg Arg Ser Arg Pro Arg Arg Arg
 50           55           60
Ala His Gly Gly Leu Ser Gln Pro Ala Gly Trp Gln Ser Leu Leu Ser
 65           70           75           80
Phe Thr Ile Leu Phe Leu Ala Trp Leu Ala Gly Phe Ser Ser Arg Leu
      85           90           95
Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp
 100           105           110
Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu
 115           120           125
Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile
 130           135           140
Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile
 145           150           155           160
His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val
      165           170           175
Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr
 180           185           190
Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala
 195           200           205
Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala
 210           215           220
Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr
 225           230           235           240
Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr
      245           250           255
Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly
 260           265           270
Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Ala Phe Val Leu Val
 275           280           285
Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Xaa Tyr Ser Thr Phe
 290           295           300
Tyr Ile Val Gly
305           308

```

&lt;210&gt; 1369

&lt;211&gt; 212

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1369

Arg Arg Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp  
 1 5 10 15  
 Cys Ser His Ser Phe Arg Val Gly Pro Ala Arg Gly Trp Val Gly Pro  
 20 25 30  
 Ser Val Ala Pro Thr Pro Leu Thr Val Pro Arg Arg Gly Leu  
 35 40 45  
 Cys Arg Leu Leu Glu Leu Thr Arg Pro Ile Phe Ile Thr Phe Glu  
 50 55 60  
 Gly Gln Arg Arg Asp Pro Ala His Pro Ala Leu Arg Leu Arg Gln  
 65 70 75 80  
 His Arg His Leu Val Thr Leu Leu Leu Trp Arg Pro Gly Ser Val Thr  
 85 90 95  
 Pro Ser Ser Asp Phe Trp Lys Glu Val Gln Leu Ala Leu Pro Arg Lys  
 100 105 110  
 Val Arg Tyr Arg Pro Val Glu Gly Asp Pro Gln Thr Gln Leu Gln Asp  
 115 120 125  
 Asp Lys Asp Pro Met Leu Ile Leu Arg Gly Arg Val Pro Glu Gly Arg  
 130 135 140  
 Ala Leu Asp Ser Glu Val Asp Pro Asp Pro Glu Gly Asp Leu Gly Val  
 145 150 155 160  
 Arg Gly Pro Val Phe Gly Glu Pro Ser Ala Pro Pro His Thr Ser Gly  
 165 170 175  
 Val Ser Leu Gly Glu Ser Arg Ser Ser Glu Val Asp Val Ser Asp Leu  
 180 185 190  
 Gly Ser Arg Asn Tyr Ser Ala Arg Thr Asp Phe Tyr Cys Leu Val Ser  
 195 200 205  
 Lys Asp Asp Met  
 210 212

&lt;210&gt; 1370

&lt;211&gt; 281

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1370

Leu Ser His Glu Gly Trp Arg Arg Gly Arg Glu Gly Glu Arg Ile Asn  
 1 5 10 15  
 Ser Ser Val Ala Ser Leu Ala Pro Leu Cys Ile Leu Pro Asp Leu Pro  
 20 25 30  
 Ser Asn Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu  
 35 40 45  
 Leu Leu Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu  
 50 55 60  
 Lys Val Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu  
 65 70 75 80  
 Val Gly Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly  
 85 90 95  
 Arg Glu Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His  
 100 105 110  
 Thr Gly Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met  
 115 120 125  
 Asp Lys Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys  
 130 135 140  
 Glu Ala Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala  
 145 150 155 160  
 Gly Lys Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His  
 165 170 175  
 Gln Ala Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala  
 180 185 190

```

Ala Asp Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His
    195                200                205
His Ala Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly
    210                215                220
Val Asn Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His
    225                230                235                240
Gln Ser Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu
    245                250                255
Ala Ser Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu
    260                265                270
Trp Arg Ser Val Ala Asn Ile Met Pro
    275                280 281

```

```

<210> 1371
<211> 119
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1371
Ser Ala Ser Gly Gly Leu Gly Met Thr Val Glu Gly Pro Glu Gly Ser
  1          5          10          15
Glu Arg Glu His Arg Pro Pro Glu Lys Pro Pro Arg Pro Pro Arg Pro
    20          25          30
Leu His Leu Ser Asp Arg Ser Phe Arg Arg Lys Lys Asp Ser Val Glu
    35          40          45
Ser His Pro Thr Trp Val Asp Asp Thr Arg Ile Asp Ala Asp Ala Ile
    50          55          60
Val Glu Lys Ile Val Gln Ser Gln Asp Phe Thr Asp Gly Ser Asn Thr
    65          70          75          80
Glu Asp Ser Asn Leu Arg Leu Phe Val Ser Arg Asp Gly Ser Ala Thr
    85          90          95
Leu Ser Gly Ile Gln Leu Ala Thr Arg Val Ser Ser Gly Val Tyr Glu
    100         105         110
Pro Val Val Ile Glu Ser His
    115         119

```

```

<210> 1372
<211> 108
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1372
Glu Arg Ser Gly Trp Pro Gln Pro Glu Gly Thr Val Thr Ala Gln Gly
  1          5          10          15
Pro Leu Phe Trp Glu Arg Leu Ser Gly Ala Val Thr Val Ser Ser Gly
    20          25          30
Tyr Lys Ala Asp Met Trp Pro Ser Phe Pro Gln Val Arg Val Gly Ser
    35          40          45
Phe Leu Phe Gly Ile Leu Phe Phe Ser Phe Gly Ser Ser Ser Leu Pro
    50          55          60
Pro Gly Leu Pro Pro Pro Ala Ser Leu Leu Cys Cys Ala Val Gln Trp
    65          70          75          80
Gly Ala Arg Ala Leu Phe Leu Pro Cys Leu Lys Glu Arg Ala Leu Gly
    85          90          95

```

Met Glu Met Arg Asn Asn Thr Leu Ser Phe Arg Gln  
 100 105 108

<210> 1373  
 <211> 209  
 <212> Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(209)  
 <223> X = any amino acid or stop code

<400> 1373  
 Ser Ser Ser Asn Leu Arg Leu Ser Phe Leu Ile Asn Glu Asn Ile Leu  
 1 5 10 15  
 Gly Lys Cys Phe Arg Ser Gly Pro Ser Cys Ala Gly Pro Arg Ile Ser  
 20 25 30  
 Pro Leu Ala Ala Gln Tyr Glu Cys Pro Arg Pro Ser Leu Leu Ile Met  
 35 40 45  
 Ala Ser Val Pro Lys Thr Asn Lys Ile Glu Pro Arg Ser Tyr Ser Ile  
 50 55 60  
 Ile Pro Ser Cys Gly Ile Arg Arg Leu Gly Pro Ala Leu Asn Thr Leu  
 65 70 75 80  
 Ile Phe Gln Ser Lys Arg Phe Gly Pro Arg Gly His Ser Ala Lys Ser  
 85 90 95  
 Ile Glu Gly Ala Pro Arg Gly Lys Gly Arg Gly Arg Ala Val Ala Arg  
 100 105 110  
 Leu Ala Ala Asp Arg Pro Pro Ala Pro Lys Ile Gln Leu Arg Ala Phe  
 115 120 125  
 Xaa Leu Gln Gln Leu Xaa Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg  
 130 135 140  
 Leu Leu Ala Pro Asp Leu Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu  
 145 150 155 160  
 Lys Trp Thr His Ser Asn Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val  
 165 170 175  
 Ile Phe Val Thr Thr Ser Pro Gly Arg Glu Trp Val Ile Cys Ala Leu  
 180 185 190  
 Ala Ala Phe Leu Gly Cys Gly Ser Leu Ser Gln Ala Pro Ser Pro Glu  
 195 200 205  
 Ser  
 209

<210> 1374  
 <211> 153  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1374  
 Leu Arg Ile Ile Asn Thr Tyr Phe Cys Phe Lys Phe Leu Ile Val Asn  
 1 5 10 15  
 Tyr Ile His Gly Thr Thr Lys Ala Arg Lys Pro His Val Leu Gly Glu  
 20 25 30  
 Ser Leu Ile Ser Ala Met Ser Arg Gln Glu Pro Lys Met Phe Val Leu



```

      35              40              45
Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly Gln Pro Arg Gly
   50              55              60
Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr Ile Cys Ser Ile
   65              70              75              80
Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro
      85              90              95
Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
   100              105              110
Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly Leu Arg Gly Lys
   115              120              125
Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp Gln Gly Glu Thr
   130              135              140
Gly Lys Lys Gly Pro Ile Gly Pro Glu
   145              150              153

```

<210> 1375  
 <211> 149  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1375
Phe Ala Ser Ala Met Leu Gly Ser Arg Val Asp Arg Pro Lys Leu Ser
 1              5              10              15
Val Ala Pro Ser Val Val Leu Glu Glu Asp Gln Val Leu Val Ser Pro
      20              25              30
Ala Val Asp Leu Glu Ala Gly Cys Arg Leu Arg Asp Phe Thr Glu Lys
   35              40              45
Ile Met Asn Val Lys Gly Lys Val Ile Leu Ser Met Leu Val Val Ser
   50              55              60
Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn Ser Thr Glu Gly Ser
   65              70              75              80
Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu Val Asp Asp Ser Ser
      85              90              95
Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe Asn Asn Gly Ile His
   100              105              110
Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys Glu Lys Gly Arg Glu
   115              120              125
Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser Phe Gly Tyr Gly Thr
   130              135              140
Gly Leu Ile Gln Thr
   145              149

```

<210> 1376  
 <211> 416  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1376
Gly Ser His Arg Phe Ser Leu Ala Ser Pro Leu Asp Pro Glu Val Gly
 1              5              10              15
Pro Tyr Cys Asp Thr Pro Thr Met Arg Thr Leu Phe Asn Leu Leu Trp
      20              25              30
Leu Ala Leu Ala Cys Ser Pro Val His Thr Thr Leu Ser Lys Ser Asp

```

```

      35              40              45
Ala Lys Lys Ala Ala Ser Lys Thr Leu Leu Glu Lys Ser Gln Phe Ser
  50              55              60
Asp Lys Pro Val Gln Asp Arg Gly Leu Val Val Thr Asp Leu Lys Ala
  65              70              75              80
Glu Ser Val Val Leu Glu His Arg Ser Tyr Cys Ser Ala Lys Ala Arg
      85              90              95
Asp Arg His Phe Ala Gly Asp Val Leu Gly Tyr Val Thr Pro Trp Asn
  100              105              110
Ser His Gly Tyr Asp Val Thr Lys Val Phe Gly Ser Lys Phe Thr Gln
  115              120              125
Ile Ser Pro Val Trp Leu Gln Leu Lys Arg Arg Gly Arg Glu Met Phe
  130              135              140
Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp Met Arg Ala Val
  145              150              155              160
Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg Leu Leu Phe Glu
      165              170              175
Asp Trp Thr Tyr Asp Asp Phe Arg Asn Val Leu Asp Ser Glu Asp Glu
  180              185              190
Ile Glu Glu Leu Ser Lys Thr Val Val Gln Val Ala Lys Asn Gln His
  195              200              205
Phe Asp Gly Phe Val Val Glu Val Trp Asn Gln Leu Leu Ser Gln Lys
  210              215              220
Arg Val Gly Leu Ile His Met Leu Thr His Leu Ala Glu Ala Leu His
  225              230              235              240
Gln Ala Arg Leu Leu Ala Leu Leu Val Ile Pro Pro Ala Ile Thr Pro
      245              250              255
Gly Thr Asp Gln Leu Gly Met Phe Thr His Lys Glu Phe Glu Gln Leu
  260              265              270
Ala Pro Val Leu Asp Gly Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr
  275              280              285
Ala His Gln Pro Gly Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys
  290              295              300
Val Gln Val Leu Asp Pro Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu
  305              310              315              320
Gly Leu Asn Phe Tyr Gly Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg
      325              330              335
Glu Pro Val Val Gly Ala Arg Tyr Ile Gln Thr Leu Lys Asp His Arg
  340              345              350
Pro Arg Met Val Trp Asp Ser Gln Val Ser Glu His Phe Phe Glu Tyr
  355              360              365
Lys Lys Ser Arg Ser Gly Arg His Val Val Phe Tyr Pro Thr Leu Lys
  370              375              380
Ser Leu Gln Val Arg Leu Glu Leu Ala Arg Glu Leu Gly Val Gly Val
  385              390              395              400
Ser Ile Trp Glu Leu Gly Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
      405              410              415              416

```

&lt;210&gt; 1377

&lt;211&gt; 316

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1377

```

Gly Arg Glu Gly Thr Gly Trp Gly Pro Ala Met Ser Glu Val Thr Arg
  1              5              10              15
Ser Leu Leu Gln Arg Trp Gly Ala Ser Phe Arg Arg Gly Ala Asp Phe

```

```

      20      25      30
Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Glu Tyr Gln Ile Leu
      35      40      45
Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser Glu
      50      55      60
Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile Ala Thr Cys Leu
      65      70      75      80
Glu Leu Arg Ser Ala Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu Phe
      85      90      95
Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile Leu
      100      105      110
Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu Arg
      115      120      125
Arg Ile Leu Ala Pro Gly Glu Glu Glu Asn Leu Glu Phe Glu Glu Asp
      130      135      140
Glu Glu Glu Gly Gly Ala Gly Ala Gly Ser Pro Asp Ser Phe Pro Ala
      145      150      155      160
Arg Val Pro Gly Thr Leu Leu Pro Arg Leu Pro Ser Glu Pro Gly Met
      165      170      175
Thr Leu Leu Thr Ile Arg Ile Glu Lys Ile Gly Leu Lys Asp Ala Gly
      180      185      190
Gln Cys Ile Asn Pro Tyr Ile Thr Val Ser Val Lys Asp Leu Asn Gly
      195      200      205
Ile Asp Leu Thr Pro Val Gln Asp Thr Pro Val Ala Ser Arg Lys Glu
      210      215      220
Asp Thr Tyr Val His Phe Asn Val Asp Ile Glu Leu Gln Lys His Val
      225      230      235      240
Glu Lys Leu Thr Lys Gly Ala Ala Ile Phe Phe Glu Phe Lys His Tyr
      245      250      255
Lys Pro Lys Lys Arg Phe Thr Ser Thr Lys Cys Phe Ala Phe Met Glu
      260      265      270
Met Asp Glu Ile Lys Leu Gly Pro Ile Val Ile Glu Leu Tyr Lys Lys
      275      280      285
Pro Thr Asp Phe Lys Arg Lys Gln Leu Gln Leu Leu Thr Lys Lys Pro
      290      295      300
Leu Tyr Leu His Leu His Gln Thr Leu His Lys Glu
      305      310      315      316

```

&lt;210&gt; 1378

&lt;211&gt; 90

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1378

```

Gly Ser Ile Thr Ser Glu Pro Ser Leu Asp Ser Leu Gln Pro Leu Pro
      1      5      10      15
Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp
      20      25      30
Tyr Arg Arg Pro Pro Gly Leu Ala Tyr Phe Cys Ile Phe Ser Arg
      35      40      45
Asp Glu Val Ser Pro Cys Trp Pro Gly Cys Ser Pro Ser Pro Asp Leu
      50      55      60
Met Ile Arg Leu Pro Arg Pro Pro Ser Val Gly Ile Thr Gly Val Ser
      65      70      75      80
His Arg Ala Trp Pro Thr Ile Asp Asn Phe
      85      90

```

&lt;210&gt; 1379

<211> 332  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1379  
 Lys Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser  
 1 5 10 15  
 Pro Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr  
 20 25 30  
 His Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Ile Leu  
 35 40 45  
 Cys Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro  
 50 55 60  
 Thr His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp  
 65 70 75 80  
 Cys Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His  
 85 90 95  
 Trp Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Ser  
 100 105 110  
 Gly Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu  
 115 120 125  
 Ser Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln  
 130 135 140  
 Val Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val  
 145 150 155 160  
 Tyr Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser  
 165 170 175  
 Tyr Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu  
 180 185 190  
 Pro Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp  
 195 200 205  
 Ala Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu  
 210 215 220  
 Val Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp  
 225 230 235 240  
 Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Val  
 245 250 255  
 Arg Pro Pro Pro Ser Gln Val His Ser His Cys Arg Pro Cys Leu Cys  
 260 265 270  
 Lys Asp Ala Val Pro Tyr Gln Arg Gly Ser Leu Lys Arg Thr His Pro  
 275 280 285  
 Lys Gln Gly Lys Ile Gly Gly Gly Thr Ser Ala Phe Leu Val Ser Leu  
 290 295 300  
 Thr Leu Ala Ser Ser Ser Ser Ser Leu Ser Ser Pro Thr Ser Phe Leu  
 305 310 315 320  
 Tyr Leu Phe His Arg Leu Asp Arg Arg Ser Leu Pro  
 325 330 332

<210> 1380  
 <211> 117  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1380  
 Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Asn Ile Ile Val Lys

```

1           5           10           15
Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Val Gln Met Leu
20
Ile Ser Val Thr Gly Leu Lys Gly Val Glu Ala Gln Asn Gly Ser Glu
35
Ser Glu Val Phe Val Gly Lys Tyr Glu Thr Leu Val Phe Tyr Trp Pro
50
Ser Leu Leu Cys Leu Ala Phe Leu Leu Gly Arg Phe Leu His Met Phe
65
Val Lys Ala Leu Arg Val His Leu Gly Trp Glu Leu Gln Val Glu Glu
85
Lys Ser Val Leu Glu Val His Gln Gly Glu His Val Lys Gln Leu Leu
100
Arg Ile Pro Arg Pro
115      117

```

<210> 1381  
 <211> 216  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1381
Lys Val Asn Arg Lys Leu Arg Lys Lys Gly Lys Ile Ser His Asp Lys
1           5           10           15
Arg Lys Lys Ser Arg Ser Lys Ala Ile Gly Ser Asp Thr Ser Asp Ile
20
Val His Ile Trp Cys Pro Glu Gly Met Lys Thr Ser Asp Ile Lys Glu
35
Leu Asn Ile Val Leu Pro Glu Phe Glu Lys Thr His Leu Glu His Gln
50
Gln Arg Ile Glu Ser Lys Val Cys Lys Ala Ala Ile Ala Thr Phe Tyr
65
Val Asn Val Lys Glu Gln Phe Ile Lys Met Leu Lys Glu Ser Gln Met
85
Leu Thr Asn Leu Lys Arg Lys Asn Ala Lys Met Ile Ser Asp Ile Glu
100
Lys Lys Arg Gln Arg Met Ile Glu Val Gln Asp Glu Leu Leu Arg Leu
115
Glu Pro Gln Leu Lys Gln Leu Gln Thr Lys Tyr Asp Glu Leu Lys Glu
130
Arg Lys Ser Ser Leu Arg Asn Ala Ala Tyr Phe Leu Ser Asn Leu Lys
145
Gln Leu Tyr Gln Asp Tyr Ser Asp Val Gln Ala Gln Glu Pro Asn Val
165
Lys Glu Thr Tyr Asp Ser Ser Ser Leu Pro Ala Leu Leu Phe Lys Ala
180
Arg Thr Leu Leu Gly Ala Glu Ser His Leu Arg Asn Ile Asn His Gln
195
Leu Glu Lys Leu Leu Asp Gln Gly
210      215 216

```

<210> 1382  
 <211> 137  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature

&lt;222&gt; (1) ... (137)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1382

```

Val Trp Val Ala Met Glu Glu Pro Pro Val Arg Glu Glu Glu Xaa Glu
1          5          10          15
Glu Gly Glu Glu Asp Glu Glu Arg Asp Glu Val Gly Pro Glu Gly Ala
          20          25          30
Leu Gly Lys Ser Pro Phe Gln Leu Thr Ala Glu Asp Val Tyr Asp Ile
          35          40          45
Ser Tyr Leu Leu Gly Arg Glu Leu Met Ala Leu Gly Ser Asp Pro Arg
          50          55          60
Val Thr Gln Leu Gln Phe Lys Val Val Arg Val Leu Glu Met Leu Glu
          65          70          75          80
Ala Leu Val Asn Glu Gly Ser Leu Ala Leu Glu Glu Leu Lys Met Glu
          85          90          95
Arg Asp His Leu Arg Lys Glu Val Glu Gly Leu Arg Arg Gln Ser Pro
          100          105          110
Pro Ala Ser Gly Glu Trp Pro Asp Ser Thr Lys Arg Arg Pro Arg Arg
          115          120          125
Lys Lys Arg Lys Arg Cys Cys Gly Tyr
          130          135          137

```

&lt;210&gt; 1383

&lt;211&gt; 90

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1383

```

Pro Arg Asn Asp His Arg Leu Thr Gln Ser Arg Arg Asp Ser Ser Ser
1          5          10          15
Lys Thr Arg Ala Phe Leu Val Pro Arg Phe Leu Pro Ala His Ala Gly
          20          25          30
Val Thr Ser Glu Glu Arg Thr Ala Met Lys Arg Glu Gly Gly Ala Ala
          35          40          45
His Leu Cys Ser Asp Ser Leu Pro Glu Ser Gln Gln Asp Gly Asn
          50          55          60
His Ala Pro Asn Phe Ser Ser His Gly Ser Cys Arg Arg Arg Gln Arg
          65          70          75          80
Arg Arg His Asp Lys Ala Leu His Ala Arg
          85          90

```

&lt;210&gt; 1384

&lt;211&gt; 166

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1384

```

Thr His Ala Ser Glu Lys Ser Arg Ala Thr Met Ser Ser Trp Ser Arg
1          5          10          15

```

```

Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln Pro His Val Ser Arg Thr
      20      25      30
Leu Phe Leu Leu Leu Leu Ala Ala Ser Ala Trp Gly Val Thr Leu
      35      40      45
Ser Pro Lys Asp Cys Gln Val Phe Arg Ser Asp His Gly Ser Ser Ile
      50      55      60
Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr
      65      70      75      80
Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn
      85      90      95
Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn
      100      105      110
Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu
      115      120      125
Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly
      130      135      140
Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn
      145      150      155      160
Gln Leu Glu Val Leu Glu
      165 166

```

```

<210> 1385
<211> 164
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1385
Glu Arg Pro Arg Ile Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe
 1      5      10      15
Leu Cys His Leu Val Phe Cys Tyr Val Phe Ile Ala Ser Gly Leu Ile
      20      25      30
Ile Asn Thr Ile Gln Leu Phe Thr Leu Leu Leu Trp Pro Ile Asn Lys
      35      40      45
Gln Leu Phe Arg Lys Ile Asn Cys Arg Leu Ser Tyr Cys Ile Ser Ser
      50      55      60
Gln Leu Val Met Leu Leu Glu Trp Trp Ser Gly Thr Glu Cys Thr Ile
      65      70      75      80
Phe Thr Asp Pro Arg Ala Tyr Leu Lys Tyr Gly Lys Glu Asn Ala Ile
      85      90      95
Val Val Leu Asn His Lys Phe Glu Ile Asp Phe Leu Cys Gly Trp Ser
      100      105      110
Leu Ser Glu Arg Phe Gly Leu Leu Gly Val Ser Gln Lys Cys Ile Pro
      115      120      125
Pro Cys Leu Thr His Phe Phe Gly Ser Ala Pro Pro Leu Val Phe Leu
      130      135      140
Leu Leu Val Ile Gln Asn Leu Gln Lys Asn Gln Gln Ser Phe Tyr Leu
      145      150      155      160
Met Lys Trp Ser
      164

```

```

<210> 1386
<211> 289
<212>Amino acid
<213> Homo sapiens

```

<400> 1386  
 Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly  
 1 5 10 15  
 Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly  
 20 25 30  
 Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp  
 35 40 45  
 Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Ala Glu  
 50 55 60  
 Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro  
 65 70 75 80  
 Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys  
 85 90 95  
 Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg  
 100 105 110  
 Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu  
 115 120 125  
 His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser  
 130 135 140  
 Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile  
 145 150 155 160  
 Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln  
 165 170 175  
 Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp  
 180 185 190  
 Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys  
 195 200 205  
 Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro  
 210 215 220  
 Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Leu Gln Ser His Pro Thr  
 225 230 235 240  
 Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr Ser  
 245 250 255  
 Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu Val  
 260 265 270  
 Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln Val  
 275 280 285  
 Gly  
 289

<210> 1387  
 <211> 320  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1387  
 Arg Phe Gly Thr Arg Gly Leu Ala Lys Ser Lys Gly Val Val Leu Met  
 1 5 10 15  
 Ala Leu Cys Ala Leu Thr Arg Ala Leu Arg Ser Leu Asn Leu Ala Pro  
 20 25 30  
 Pro Thr Val Ala Ala Pro Ala Pro Ser Leu Phe Pro Ala Ala Gln Met  
 35 40 45  
 Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro  
 50 55 60  
 Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser  
 65 70 75 80  
 Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys  
 85 90 95



```

Ser Gly Gly Arg Asp His Thr Gly Arg Ile Arg Val His Gly Ile Gly
      100      105      110
Gly Gly His Lys Gln Arg Tyr Arg Met Ile Asp Phe Leu Arg Phe Arg
      115      120      125
Pro Glu Glu Thr Lys Ser Gly Pro Phe Glu Glu Lys Val Ile Gln Val
      130      135      140
Arg Tyr Asp Pro Cys Arg Ser Ala Asp Ile Ala Leu Val Ala Gly Gly
      145      150      155      160
Ser Arg Lys Arg Trp Ile Ile Ala Thr Glu Asn Met Gln Ala Gly Asp
      165      170      175
Thr Ile Leu Asn Ser Asn His Ile Gly Arg Met Ala Val Ala Ala Arg
      180      185      190
Glu Gly Asp Ala His Pro Leu Gly Ala Leu Pro Val Gly Thr Leu Ile
      195      200      205
Asn Asn Val Glu Ser Glu Pro Gly Arg Gly Ala Gln Tyr Ile Arg Ala
      210      215      220
Ala Gly Thr Cys Gly Val Leu Leu Arg Lys Val Asn Gly Thr Ala Ile
      225      230      235      240
Ile Gln Leu Pro Ser Lys Arg Gln Met Gln Val Leu Glu Thr Cys Val
      245      250      255
Ala Thr Val Gly Arg Val Ser Asn Val Asp His Asn Lys Arg Val Ile
      260      265      270
Gly Lys Ala Gly Arg Asn Arg Trp Leu Gly Lys Arg Pro Asn Ser Gly
      275      280      285
Arg Trp His Arg Lys Gly Gly Trp Ala Gly Arg Lys Ile Arg Pro Leu
      290      295      300
Pro Pro Met Lys Ser Tyr Val Lys Leu Pro Ser Ala Ser Ala Gln Ser
      305      310      315      320

```

<210> 1388  
 <211> 140  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1388
Pro Val Gln Gly Ala Arg Cys Trp Leu Asp Ala Arg Arg Asn Val Arg
      1      5      10      15
Val Phe Ser Gly Val Cys Cys Gly Cys Gly Ile His Gly Tyr Trp Ala
      20      25      30
Glu Pro Cys Gly Gly Cys Gly Ala Met Glu Gly Leu Arg Ser Ser Val
      35      40      45
Glu Leu Asp Pro Glu Leu Thr Pro Gly Lys Leu Asp Glu Glu Met Val
      50      55      60
Gly Leu Pro Pro His Asp Ala Ser Pro Gln Val Thr Phe His Ser Leu
      65      70      75      80
Asp Gly Lys Thr Val Val Cys Pro His Phe Met Gly Leu Leu Leu Gly
      85      90      95
Leu Leu Leu Leu Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg
      100      105      110
Gly Glu Arg Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys
      115      120      125
Ser Gln Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp
      130      135      140

```

<210> 1389  
 <211> 448

<212>Amino acid  
<213> Homo sapiens

<400> 1389

```

Gly Ala Arg Gly Arg Pro Leu Ala Glu Thr Trp Pro Phe Leu Thr Ala
 1          5          10          15
Pro Val Leu Pro Gly Gln Leu Gln Ile Thr Glu Pro Thr Met Ala Glu
          20          25          30
Lys Gly Asp Cys Ile Ala Ser Val Tyr Gly Tyr Asp Leu Gly Gly Arg
          35          40          45
Phe Val Asp Phe Gln Pro Leu Gly Phe Gly Val Asn Gly Leu Val Leu
          50          55          60
Ser Ala Val Asp Ser Arg Ala Cys Arg Lys Val Ala Val Lys Lys Ile
          65          70          75          80
Ala Leu Ser Asp Ala Arg Ser Met Lys His Ala Leu Arg Glu Ile Lys
          85          90          95
Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val Tyr Glu Val
          100          105          110
Leu Gly Pro Lys Gly Thr Asp Leu Gln Gly Glu Leu Phe Lys Phe Ser
          115          120          125
Val Ala Tyr Ile Val Gln Glu Tyr Met Glu Thr Asp Leu Ala Arg Leu
          130          135          140
Leu Glu Gln Gly Thr Leu Ala Glu Glu His Ala Lys Leu Phe Met Tyr
          145          150          155          160
Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn Val Leu His
          165          170          175
Arg Asp Leu Lys Pro Ala Asn Ile Phe Ile Ser Thr Glu Asp Leu Val
          180          185          190
Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Val Asp Gln His Tyr
          195          200          205
Ser His Lys Gly Tyr Leu Ser Glu Gly Leu Val Thr Lys Trp Tyr Arg
          210          215          220
Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn Tyr Thr Lys Ala Ile Asp
          225          230          235          240
Met Trp Ala Ala Gly Cys Ile Leu Ala Glu Met Leu Thr Gly Arg Met
          245          250          255
Leu Phe Ala Gly Ala His Glu Leu Glu Gln Met Gln Leu Ile Leu Glu
          260          265          270
Thr Ile Pro Val Ile Arg Glu Glu Asp Lys Asp Glu Leu Leu Arg Val
          275          280          285
Met Pro Ser Phe Val Ser Ser Thr Trp Glu Val Lys Arg Pro Leu Arg
          290          295          300
Lys Leu Leu Pro Glu Val Asn Ser Glu Ala Ile Asp Phe Leu Glu Lys
          305          310          315          320
Ile Leu Thr Phe Asn Pro Met Asp Arg Leu Thr Ala Glu Met Gly Leu
          325          330          335
Gln His Pro Tyr Met Ser Pro Tyr Ser Cys Pro Glu Asp Glu Pro Thr
          340          345          350
Ser Gln His Pro Phe Arg Ile Glu Asp Glu Ile Asp Asp Ile Val Leu
          355          360          365
Met Ala Ala Asn Gln Ser Gln Leu Ser Asn Trp Asp Thr Cys Ser Ser
          370          375          380          385
Arg Tyr Pro Val Ser Leu Ser Ser Asp Leu Glu Trp Arg Pro Asp Arg
          390          395          400
Cys Gln Asp Ala Ser Glu Val Gln Arg Asp Pro Arg Ala Gly Ser Ala
          405          410          415
Pro Leu Ala Glu Asn Val Gln Val Asp Pro Arg Lys Asp Ser His Ser
          420          425          430
Ser Ser Ala Ser Cys Gln Ala Gly Arg Asn Gly Val Ser Arg Tyr Gln
          435          440          445          448

```

<210> 1390  
 <211> 815  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1390  
 Met Arg Thr Leu Gly Thr Cys Leu Ala Thr Leu Ala Gly Leu Leu Leu  
 1 5 10 15  
 Thr Ala Ala Gly Glu Thr Phe Ser Gly Gly Cys Leu Phe Asp Glu Pro  
 20 25 30  
 Tyr Ser Thr Cys Gly Tyr Ser Gln Ser Glu Gly Asp Asp Phe Asn Trp  
 35 40 45  
 Glu Gln Val Asn Thr Leu Thr Lys Pro Thr Ser Asp Pro Trp Met Pro  
 50 55 60  
 Ser Gly Ser Phe Met Leu Val Asn Ala Ser Gly Arg Pro Glu Gly Gln  
 65 70 75 80  
 Arg Ala His Leu Leu Pro Gln Leu Lys Glu Asn Asp Thr His Cys  
 85 90 95  
 Ile Asp Phe His Tyr Phe Val Ser Ser Lys Ser Asn Ser Pro Pro Gly  
 100 105 110  
 Leu Leu Asn Val Tyr Val Lys Val Asn Asn Gly Pro Leu Gly Asn Pro  
 115 120 125  
 Ile Trp Asn Ile Ser Gly Asp Pro Thr Arg Thr Trp Asn Arg Ala Glu  
 130 135 140  
 Leu Ala Ile Ser Thr Phe Trp Pro Asn Phe Tyr Gln Val Ile Phe Glu  
 145 150 155 160  
 Val Ile Thr Ser Gly His Gln Gly Tyr Leu Ala Ile Asp Glu Val Lys  
 165 170 175  
 Val Leu Gly His Pro Cys Thr Arg Thr Pro His Phe Leu Arg Ile Gln  
 180 185 190  
 Asn Val Glu Val Asn Ala Gly Gln Phe Ala Thr Phe Gln Cys Ser Ala  
 195 200 205  
 Ile Gly Arg Thr Val Ala Gly Asp Arg Leu Trp Leu Gln Gly Ile Asp  
 210 215 220  
 Val Arg Asp Ala Pro Leu Lys Glu Ile Lys Val Thr Ser Ser Arg Arg  
 225 230 235 240  
 Phe Ile Ala Ser Phe Asn Val Val Asn Thr Thr Lys Arg Asp Ala Gly  
 245 250 255  
 Lys Tyr Arg Cys Met Ile Arg Thr Glu Gly Gly Val Gly Ile Ser Asn  
 260 265 270  
 Tyr Ala Glu Leu Val Val Lys Glu Pro Pro Val Pro Ile Ala Pro Pro  
 275 280 285  
 Gln Leu Ala Ser Val Gly Ala Thr Tyr Leu Trp Ile Gln Leu Asn Ala  
 290 295 300  
 Asn Ser Ile Asn Gly Asp Gly Pro Ile Val Ala Arg Glu Val Glu Tyr  
 305 310 315 320  
 Cys Thr Ala Ser Gly Ser Trp Asn Asp Arg Gln Pro Val Asp Ser Thr  
 325 330 335  
 Ser Tyr Lys Ile Gly His Leu Asp Pro Asp Thr Glu Tyr Glu Ile Ser  
 340 345 350  
 Val Leu Leu Thr Arg Pro Gly Glu Gly Thr Gly Ser Pro Gly Pro  
 355 360 365  
 Ala Leu Arg Thr Arg Thr Lys Cys Ala Asp Pro Met Arg Gly Pro Arg  
 370 375 380  
 Lys Leu Glu Val Val Glu Val Lys Ser Arg Gln Ile Thr Ile Arg Trp  
 385 390 395 400

Glu Pro Phe Gly Tyr Asn Val Thr Arg Cys His Ser Tyr Asn Leu Thr  
 405 410 415  
 Val His Tyr Cys Tyr Gln Val Gly Gly Gln Glu Val Arg Glu Glu  
 420 425 430  
 Val Ser Trp Asp Thr Glu Asn Ser His Pro Gln His Thr Ile Thr Asn  
 435 440 445  
 Leu Ser Pro Tyr Thr Asn Val Ser Val Lys Leu Ile Leu Met Asn Pro  
 450 455 460  
 Glu Gly Arg Lys Glu Ser Gln Glu Leu Ile Val Gln Thr Asp Glu Asp  
 465 470 475 480  
 Leu Pro Gly Ala Val Pro Thr Glu Ser Ile Gln Gly Ser Thr Phe Glu  
 485 490 495  
 Glu Lys Ile Phe Leu Gln Trp Arg Glu Pro Thr Gln Thr Tyr Gly Val  
 500 505 510  
 Ile Thr Leu Tyr Glu Ile Thr Tyr Lys Ala Val Ser Ser Phe Asp Pro  
 515 520 525  
 Glu Ile Asp Leu Ser Asn Gln Ser Gly Arg Val Ser Lys Leu Gly Asn  
 530 535 540  
 Glu Thr His Phe Leu Phe Phe Gly Leu Tyr Pro Gly Thr Thr Tyr Ser  
 545 550 555 560  
 Phe Thr Ile Arg Ala Ser Thr Ala Lys Gly Phe Gly Pro Pro Ala Thr  
 565 570 575  
 Asn Gln Phe Thr Thr Lys Ile Ser Ala Pro Ser Met Pro Ala Tyr Glu  
 580 585 590  
 Leu Glu Thr Pro Leu Asn Gln Thr Asp Asn Thr Val Thr Val Met Leu  
 595 600 605  
 Lys Pro Ala His Ser Arg Gly Ala Pro Val Ser Val Tyr Gln Ile Val  
 610 615 620  
 Val Glu Glu Glu Arg Pro Arg Arg Thr Lys Lys Thr Thr Glu Ile Leu  
 625 630 635 640  
 Lys Cys Tyr Pro Val Pro Ile His Phe Gln Asn Ala Ser Leu Leu Asn  
 645 650 655  
 Ser Gln Tyr Tyr Phe Ala Ala Glu Phe Pro Ala Asp Ser Leu Gln Ala  
 660 665 670  
 Ala Gln Pro Phe Thr Ile Gly Asp Asn Lys Thr Tyr Asn Gly Tyr Trp  
 675 680 685  
 Asn Thr Pro Leu Leu Pro Tyr Lys Ser Tyr Arg Ile Tyr Phe Gln Ala  
 690 695 700  
 Ala Ser Arg Ala Asn Gly Glu Thr Lys Ile Asp Cys Val Gln Val Ala  
 705 710 715 720  
 Thr Lys Gly Ala Ala Thr Pro Lys Pro Val Pro Glu Pro Glu Lys Gln  
 725 730 735  
 Thr Asp His Thr Val Lys Ile Ala Gly Val Ile Ala Gly Ile Leu Leu  
 740 745 750  
 Phe Val Ile Ile Phe Leu Gly Val Val Leu Val Met Lys Lys Arg Leu  
 755 760 765  
 Tyr Lys His Gly Ala Ser Ile Cys Ser Ala Ser Gly Glu Ala Ser Gly  
 770 775 780  
 Ser Phe Gln Ser Trp Arg Lys Ala Lys His Lys Gln Ala Cys Pro Met  
 785 790 795 800  
 Ala Arg Ala Gly Ala Arg Glu Arg Ala Gly Gly Cys Leu Lys Leu  
 805 810 815

&lt;210&gt; 1391

&lt;211&gt; 142

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1391

Gly Ile Arg Gln Leu Leu Gln Leu Ser Arg Ala Ser Met Ala Ala Arg  
 1 5 10 15  
 Lys Ser Trp Thr Ala Leu Arg Leu Cys Ala Thr Val Val Val Leu Asp  
 20 25 30  
 Met Val Val Cys Lys Gly Phe Val Gln Asp Leu Asp Glu Ser Phe Lys  
 35 40 45  
 Glu Asn Arg Asn Asp Asp Ile Trp Leu Val His Phe Tyr Ala Pro Trp  
 50 55 60  
 Cys Gly His Cys Lys Lys Leu Glu Pro Ile Trp Asn Glu Ala Gly Leu  
 65 70 75 80  
 Glu Met Lys Ser Ile Gly Ser Pro Val Lys Ala Gly Lys Met Asp Ala  
 85 90 95  
 Thr Ser Tyr Ser Ser Ile Ala Ser Glu Phe Gly Val Arg Gly Tyr Pro  
 100 105 110  
 Thr Ile Lys Leu Ala Leu Ile Arg Pro Leu Pro Ser Gln Gln Met Phe  
 115 120 125  
 Glu His Met His Lys Arg His Arg Val Phe Phe Val Tyr Val  
 130 135 140 142

<210> 1392  
 <211> 282  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1392  
 Gly Leu Val Ile Val Ile Ser His Phe Ser Pro Ser Pro Gly Leu Leu  
 1 5 10 15  
 Pro Ala Thr Gln Ser Pro Ala Met Ser Asp Pro Ile Thr Leu Asn Val  
 20 25 30  
 Gly Gly Lys Leu Tyr Thr Thr Ser Leu Ala Thr Leu Thr Ser Phe Pro  
 35 40 45  
 Asp Ser Met Leu Gly Ala Met Phe Ser Gly Lys Met Pro Thr Lys Arg  
 50 55 60  
 Asp Ser Gln Gly Asn Cys Phe Ile Asp Arg Asp Gly Lys Val Phe Arg  
 65 70 75 80  
 Tyr Ile Leu Asn Phe Leu Arg Thr Ser His Leu Asp Leu Pro Glu Asp  
 85 90 95  
 Phe Gln Glu Met Gly Leu Leu Arg Arg Glu Ala Asp Phe Tyr Gln Val  
 100 105 110  
 Gln Pro Leu Ile Glu Ala Leu Gln Glu Lys Glu Val Glu Leu Ser Lys  
 115 120 125  
 Ala Glu Lys Asn Ala Met Leu Asn Ile Thr Leu Asn Gln Arg Val Gln  
 130 135 140  
 Thr Val His Phe Thr Val Arg Glu Ala Pro Gln Ile Tyr Ser Leu Ser  
 145 150 155 160  
 Ser Ser Ser Met Glu Val Phe Asn Ala Asn Ile Phe Ser Thr Ser Cys  
 165 170 175  
 Leu Phe Leu Lys Leu Leu Gly Ser Lys Leu Phe Tyr Cys Ser Asn Gly  
 180 185 190  
 Asn Leu Ser Ser Ile Thr Ser His Leu Gln Asp Pro Asn His Leu Thr  
 195 200 205  
 Leu Asp Trp Val Ala Asn Val Glu Gly Leu Pro Glu Glu Tyr Thr  
 210 215 220  
 Lys Gln Asn Leu Lys Arg Leu Trp Val Val Pro Ala Asn Lys Gln Ile  
 225 230 235 240  
 Asn Ser Phe Gln Val Phe Val Glu Glu Val Leu Lys Ile Ala Leu Ser  
 245 250 255  
 Asp Gly Phe Cys Ile Asp Ser Ser His Pro His Ala Leu Asp Phe Met  
 260 265 270

<210> 1393  
 <211> 308  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1393  
 Ser Cys Ala Asp Asn Leu Val Ala Ala Ser Gly Gly Cys Trp Phe Val  
 1 5 10 15  
 Leu Gly Glu Arg Arg Ala Gly Ser Leu Ser Ala Ser Tyr Gly Thr  
 20 25 30  
 Phe Ala Met Pro Gly Met Val Leu Phe Gly Arg Arg Trp Ala Ile Ala  
 35 40 45  
 Ser Asp Asp Leu Val Phe Pro Gly Phe Phe Glu Leu Val Val Arg Val  
 50 55 60  
 Leu Trp Trp Ile Gly Ile Leu Thr Leu Tyr Leu Met His Arg Gly Lys  
 65 70 75 80  
 Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser Tyr Leu Ile Val Leu  
 85 90 95  
 Met Ile Leu Leu Ala Val Val Ile Cys Thr Val Ser Ala Ile Met Cys  
 100 105 110  
 Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly Pro Arg Lys Ser Met  
 115 120 125  
 Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe Phe Pro Glu Met Val  
 130 135 140  
 Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp Gly Val Gln Cys Asp  
 145 150 155 160  
 Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val Val Val Ser Trp Ile  
 165 170 175  
 Ile Ile Ala Ala Thr Val Val Ser Ile Ile Val Phe Asp Pro Leu  
 180 185 190  
 Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly Pro Ser His Leu Asp  
 195 200 205  
 Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu Lys Thr Ala Ala Thr  
 210 215 220  
 Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys Cys Cys Ile Gly Lys  
 225 230 235 240  
 Asp Asp His Thr Arg Val Ala Phe Ser Ser Thr Ala Glu Leu Phe Ser  
 245 250 255  
 Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser Asp Ile Ala Ala Gly  
 260 265 270  
 Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile Arg Asn Asn Gln Asp  
 275 280 285  
 Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala Pro Arg Lys Leu Ile  
 290 295 300  
 Trp Met Gln Asn  
 305 308

<210> 1394  
 <211> 238  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1394  
 Phe Arg Ala Ala Thr Ala Ala Ala Lys Gly Asn Gly Gly Gly Gly Gly  
 1 5 10 15  
 Arg Ala Gly Ala Gly Asp Ala Ser Gly Thr Arg Lys Lys Lys Gly Pro  
 20 25 30  
 Gly Pro Leu Ala Thr Ala Tyr Leu Val Ile Tyr Asn Val Val Met Thr  
 35 40 45  
 Ala Gly Trp Leu Val Ile Ala Val Gly Leu Val Arg Ala Tyr Leu Ala  
 50 55 60  
 Lys Gly Ser Tyr His Ser Leu Tyr Tyr Ser Ile Glu Lys Pro Leu Lys  
 65 70 75 80  
 Phe Phe Gln Thr Gly Ala Leu Leu Glu Ile Leu His Cys Ala Ile Gly  
 85 90 95  
 Ile Val Pro Ser Ser Val Val Leu Thr Ser Phe Gln Val Met Ser Arg  
 100 105 110  
 Val Phe Leu Ile Trp Ala Val Thr His Ser Val Lys Glu Val Gln Ser  
 115 120 125  
 Glu Asp Ser Val Leu Phe Val Ile Ala Trp Thr Ile Thr Glu Ile Ile  
 130 135 140  
 Arg Tyr Ser Phe Tyr Thr Phe Ser Leu Leu Asn His Leu Pro Tyr Leu  
 145 150 155 160  
 Ile Lys Arg Ala Arg Tyr Thr Leu Phe Ile Val Leu Tyr Pro Met Gly  
 165 170 175  
 Val Ser Gly Glu Leu Leu Thr Ile Tyr Ala Ala Leu Pro Phe Val Arg  
 180 185 190  
 Gln Ala Gly Leu Tyr Ser Ile Ser Leu Pro Asn Ser Thr Lys Lys Ile  
 195 200 205  
 Phe Leu Ile Ser Gln Val Trp Trp His Met Leu Ala Val Ser Ala Asp  
 210 215 220  
 Ala Lys Ala Ala Glu Met Pro Ala Val Leu Lys Pro Gly Pro  
 225 230 235 238

<210> 1395

<211> 231

<212> Amino acid

<213> Homo sapiens

<400> 1395  
 Met Leu Thr Gly Val Gly Cys Leu Val Ser Ser Glu Ser Leu Ser Cys  
 1 5 10 15  
 Val Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser  
 20 25 30  
 Glu Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ala Ser  
 35 40 45  
 Ser Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser  
 50 55 60  
 Ala Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His  
 65 70 75 80  
 Val Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Glu Gly  
 85 90 95  
 Lys Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn  
 100 105 110  
 Val Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr  
 115 120 125  
 Ser Cys Arg Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val  
 130 135 140  
 Phe Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val  
 145 150 155 160

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Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser
      165      170      175
Gly Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys
      180      185      190
Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His
      195      200      205
Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu
      210      215      220
Leu Leu Arg Gly Leu Leu Pro
225      230 231

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<210> 1396
<211> 216
<212> Amino acid
<213> Homo sapiens

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<400> 1396
Val Pro Ala Arg Arg Arg Ala Met Glu Ile Gly Thr Glu Ile Ser Arg
 1      5      10      15
Lys Ile Arg Ser Ala Ile Lys Gly Lys Leu Gln Glu Leu Gly Ala Tyr
      20      25      30
Val Asp Glu Glu Leu Pro Asp Tyr Ile Met Val Met Val Ala Asn Lys
      35      40      45
Lys Ser Gln Asp Gln Met Thr Glu Asp Leu Ser Leu Phe Leu Gly Asn
      50      55      60
Asn Thr Ile Arg Phe Thr Val Trp Leu His Gly Val Leu Asp Lys Leu
      65      70      75      80
Arg Ser Val Thr Thr Glu Pro Ser Ser Leu Lys Ser Ser Asp Thr Asn
      85      90      95
Ile Phe Asp Ser Asn Val Pro Ser Asn Lys Ser Asn Phe Ser Arg Gly
      100      105      110
Asp Glu Arg Arg His Glu Ala Ala Val Pro Pro Leu Ala Ile Pro Ser
      115      120      125
Ala Arg Pro Glu Lys Arg Asp Ser Arg Val Ser Thr Ser Ser Gln Glu
      130      135      140
Ser Lys Thr Thr Asn Val Arg Gln Thr Tyr Asp Asp Gly Ala Ala Thr
      145      150      155      160
Arg Leu Met Ser Thr Val Lys Pro Leu Arg Glu Pro Ala Pro Ser Glu
      165      170      175
Asp Val Ile Asp Ile Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp
      180      185      190
Leu Asn Phe Val Gln Glu Lys Pro Leu Ser Gln Lys Lys Pro Thr Val
      195      200      205
Thr Leu Thr Tyr Gly Ser Ser Arg
      210      215 216

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<210> 1397
<211> 135
<212> Amino acid
<213> Homo sapiens

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<400> 1397
Ala Ser Arg Val Leu Ala Ala Val Met Gly Leu Pro Trp Gly Gln Pro
 1      5      10      15

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His Leu Gly Leu Gln Met Leu Leu Leu Ala Leu Asn Trp Leu Arg Pro
      20                25                30
Ser Leu Ser Leu Glu Leu Val Pro Tyr Thr Pro Gln Ile Thr Ala Trp
      35                40                45
Asp Leu Glu Gly Lys Val Thr Ala Thr Thr Phe Ser Leu Glu Gln Pro
      50                55                60
Arg Cys Val Phe Asp Gly Leu Ala Ser Ala Ser Asp Thr Val Trp Leu
      65                70                75                80
Val Val Ala Phe Ser Asn Ala Ser Arg Gly Phe Gln Asn Pro Glu Thr
      85                90                95
Leu Ala Asp Ile Pro Ala Ser Pro Gln Leu Leu Thr Asp Gly His Tyr
      100               105               110
Met Thr Leu Pro Leu Ser Pro Asp Gln Leu Pro Cys Gly Asp Pro Met
      115               120               125
Ala Gly Ser Gly Ser Ala Pro
      130               135

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<210> 1398  
 <211> 41  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1398
Asn Ser Leu Asn Asn Phe Phe Phe Glu Thr Glu Ser Cys Cys Val Ala
 1          5          10          15
Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro
      20                25                30
Pro Gly Phe Lys Arg Phe Ser Cys Leu
      35                40 41

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<210> 1399  
 <211> 151  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1399
Lys Ser Leu Pro Leu Gln Lys His Pro Lys Pro Ser Cys Gln Glu Asp
 1          5          10          15
Gln Gly Leu Gly Arg Gly Ser Leu Ser Gly His Ser Pro Leu Thr Leu
      20                25                30
Leu Thr Phe Leu Thr Ser Cys Ala Leu Gly Asp Gln Gln Leu Leu Pro
      35                40                45
Pro Arg Thr Ser Gly Ser Leu Cys Gln Glu Ser Met Ser Glu Gln Ser
      50                55                60
Cys Gln Met Ser Glu Leu Arg Leu Leu Leu Gly Lys Cys Arg Ser
      65                70                75                80
Gly Lys Ser Ala Thr Gly Asn Ala Ile Leu Gly Lys His Val Phe Lys
      85                90                95
Ser Lys Phe Ser Asp Gln Thr Val Ile Lys Met Cys Gln Arg Glu Ser
      100               105               110
Trp Val Leu Arg Glu Arg Lys Val Val Val Ile Asp Thr Pro Asp Leu
      115               120               125
Phe Ser Ser Ile Ala Cys Ala Glu Asp Lys Gln Arg Asn Ile Gln His
      130               135               140

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Leu Leu Glu Leu Ser Ala Pro  
145 150 151

<210> 1400  
<211> 324  
<212> Amino acid  
<213> Homo sapiens

<400> 1400  
Phe Val Glu Thr Thr Val Ser Val Gln Ser Ala Glu Ser Ser Asp Ala  
1 5 10 15  
Leu Ser Trp Ser Arg Leu Pro Arg Ala Leu Ala Ser Val Gly Pro Glu  
20 25 30  
Glu Ala Arg Ser Gly Ala Pro Val Gly Gly Gly Arg Trp Gln Leu Ser  
35 40 45  
Asp Arg Val Glu Gly Gly Ser Pro Thr Leu Gly Leu Gly Gly Ser  
50 55 60  
Pro Ser Ala Gln Pro Gly Thr Gly Asn Val Glu Ala Gly Ile Pro Ser  
65 70 75 80  
Gly Arg Met Leu Glu Pro Leu Pro Cys Trp Asp Ala Ala Lys Asp Leu  
85 90 95  
Lys Glu Pro Gln Cys Pro Pro Gly Asp Arg Val Gly Val Gln Pro Gly  
100 105 110  
Asn Ser Arg Val Trp Gln Gly Thr Met Glu Lys Ala Gly Leu Ala Trp  
115 120 125  
Thr Arg Gly Thr Gly Val Gln Ser Glu Gly Thr Trp Glu Ser Gln Arg  
130 135 140  
Gln Asp Ser Asp Ala Leu Pro Ser Pro Glu Leu Leu Pro Gln Asp Gln  
145 150 155 160  
Asp Lys Pro Phe Leu Arg Lys Ala Cys Ser Pro Ser Asn Ile Pro Ala  
165 170 175  
Val Ile Ile Thr Asp Met Gly Thr Gln Glu Asp Gly Ala Leu Glu Glu  
180 185 190  
Thr Gln Gly Ser Pro Arg Gly Asn Leu Pro Leu Arg Lys Leu Ser Ser  
195 200 205  
Ser Ser Ala Ser Ser Thr Gly Phe Ser Ser Ser Tyr Glu Asp Ser Glu  
210 215 220  
Glu Asp Ile Ser Ser Asp Pro Glu Arg Thr Leu Asp Pro Asn Ser Ala  
225 230 235 240  
Phe Leu His Thr Leu Asp Gln Gln Lys Pro Arg Val Val Glu Ser Arg  
245 250 255  
Ser Val Thr Gln Ala Gly Val Gln Trp His Asp Ile Gly Ser Leu Gln  
260 265 270  
Pro Leu Pro Pro Trp Ile Gln Ala Ile Leu His Ala Ser Ala Phe Arg  
275 280 285  
Ile Ala Gly Thr Thr Gly Ala Cys His His Ala Arg Ile Ile Phe Gly  
290 295 300  
Phe Leu Val Glu Arg Gly Phe His His Val Gly Gln Asp Gly Leu Tyr  
305 310 315 320  
Leu Leu Ile Leu  
324

<210> 1401  
<211> 76  
<212> Amino acid  
<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(76)  
 <223> X = any amino acid or stop code

<400> 1401  
 Lys Ile Cys Ser Ser Tyr Phe Leu Arg Ile Ile Cys Ile Leu Gln Lys  
 1 5 10 15  
 Glu Ala Gln Glu Ala Ser Asn Leu Tyr Thr Ser Cys Asp Phe Phe Ser  
 20 25 30  
 Pro Ala Phe Tyr Phe Val Ile Tyr Arg Leu Tyr Asn Phe Lys Ile His  
 35 40 45  
 Trp Pro Gly Ala Val Ala His Thr Tyr Ser Pro Ser Thr Leu Gly Gly  
 50 55 60  
 Arg Gly Arg Trp Val Thr Xaa Gly Arg Glu Phe Met  
 65 70 75 76

<210> 1402  
 <211> 102  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1402  
 Leu Ile Leu Ser Leu Pro Leu Leu Tyr Gly His Leu Lys Ser Tyr Thr  
 1 5 10 15  
 Phe Pro Ser Glu His Tyr Leu His Leu Leu Gln Thr Phe Ala Thr Phe  
 20 25 30  
 Asn Lys Tyr Leu Asn Val Cys Val Leu Ile Phe Ile His His Lys Pro  
 35 40 45  
 Val Val Pro Ala Ile Gln Gly Thr Asn Val Gly Gly Ser Leu Glu Pro  
 50 55 60  
 Arg Arg Leu Arg Leu Gln Gln Ala Met Ile Val Pro Leu His Phe Gly  
 65 70 75 80  
 Leu Gly Asn Arg Val Arg Pro Cys Leu Lys Lys Gln Gln Gln Gln Gln  
 85 90 95  
 Gln Gln Gln Gln Lys Lys  
 100 102

<210> 1403  
 <211> 124  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> X = any amino acid or stop code

<400> 1403  
 Arg Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile  
 1 5 10 15

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Ile Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Ala
      20      25      30
Gly Val Trp Gly Lys Leu Thr Leu Gly Ser Tyr Ile Ser Leu Ile Ala
      35      40      45
Glu Asn Ser Thr Tyr Ala Pro Tyr Val Leu Ile Val Thr Gly Thr Thr
      50      55      60
Ile Val Ala Tyr Pro Leu Val Xaa Phe Phe Phe Ser Tyr Ser Ser Gly
      65      70      75      80
Phe Ser Tyr Ile Leu Ala Val Arg Leu Ile Ala Gly Ile Ala Leu Val
      85      90      95
Tyr Asn Tyr Ile Pro Arg Ser Ser Ser Arg Ala Leu Val Arg Leu Val
      100      105      110
Val Leu Leu Arg Phe Leu Leu Ser Arg His Pro Ser
      115      120      124

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<210> 1404
<211> 136
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(136)
<223> X = any amino acid or stop code

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<400> 1404
Asn Ala Glu His Pro Gly Met Asp Arg His Asp Leu Cys Gln Lys Ala
 1      5      10      15
Lys Leu Ala Glu His Ala Glu Arg Asp Asp Asp Met Ala Ala Cys Met
      20      25      30
Lys Thr Val Thr Asp Gln Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn
      35      40      45
Leu Leu Ser Asp Ala His Thr Asn Ala Val Xaa Ala Arg Arg Ser Ser
      50      55      60
Trp Met Gly Ala Xaa Arg Ile Glu Gln Lys Thr Glu Gly Ala Asp Thr
      65      70      75      80
Gln Gln Gln Met Ala Pro Asp Cys Arg Glu Ile Phe Ala Thr Glu Leu
      85      90      95
Arg Asp Ile Cys Asp Asp Val Leu Ser Leu Leu Glu Lys Leu Leu Ile
      100      105      110
Pro Asn Ala Ser His Ala Xaa Ser Leu Val Tyr Tyr Leu His Met Ile
      115      120      125
Gly Asp Tyr Tyr Arg Tyr Trp Leu
      130      135 136

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<210> 1405
<211> 110
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(110)
<223> X = any amino acid or stop code

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MISSING AT THE TIME OF PUBLICATION

[illegible]

&lt;210&gt; 1408

<211> 92

<212>Amino acid

<213> Homo sapiens

<220>

&lt;221&gt; misc feature

<222> (1) ... (92)

<223> X = any amino acid or stop code

<400> 1408

Ala	Thr	Ala	Pro	Gly	Leu	Phe	Asn	Phe	Phe	Xaa	Phe	Leu	Phe	Gln	Cys
1				5					10					15	
Arg	Glu	Glu	His	Lys	Lys	Asn	Pro	Glu	Val	Pro	Val	Asn	Phe	Ala	
			20				25						30		
Glu	Phe	Ser	Lys	Lys	Cys	Ser	Gly	Arg	Trp	Lys	Thr	Met	Ser	Ser	Lys
		35					40					45			
Glu	Lys	Phe	Lys	Phe	Gly	Glu	Met	Ala	Lys	Ala	Asp	Glu	Val	Cys	Tyr
	50				55						60				
Asp	Arg	Glu	Met	Lys	Asp	Tyr	Gly	Pro	Ala	Lys	Gly	Gly	Lys	Lys	Lys
65					70					75					80
Asp	Pro	Asn	Ala	Pro	Lys	Arg	Pro	Pro	Ser	Gly	Phe				
				85					90		92				

&lt;210&gt; 1409

<211> 169

<212>Amino acid

<213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(169)  
 <223> X = any amino acid or stop code

<400> 1409  
 Ala Glu Gly Leu Gly Ser Trp Ala Val Trp Ala Gly Leu Gly Trp Ala  
 1 5 10 15  
 Gly Arg His Met Glu Ala Gly Gly Ala Thr Gly Ala Leu Gly Val Gly  
 20 25 30  
 Ser Lys Leu Pro Ser Ala Phe Cys Phe Pro Gly Ser Ser Val Ala Met  
 35 40 45  
 Asp Met Phe Gln Lys Val Glu Lys Ile Gly Glu Gly Thr Tyr Gly Val  
 50 55 60  
 Val Tyr Lys Ala Lys Asn Arg Glu Thr Gly Gln Leu Val Ala Leu Lys  
 65 70 75 80  
 Lys Ile Arg Leu Asp Leu Xaa Val Leu Gly Arg Pro Leu Ser Tyr Pro  
 85 90 95  
 Pro Trp Ala Ile Thr Thr Trp Ala Leu Pro Asp Pro Phe Pro Leu Ser  
 100 105 110  
 Trp Ser Pro Arg Leu Thr Pro Leu Gly Ala Ala Gln Gln Pro Leu Pro  
 115 120 125  
 Val Leu Ser Pro Val His Cys Leu Leu Thr Ser Leu Cys Arg Gly Pro  
 130 135 140  
 Asp Cys Gly Val Trp Trp Met Thr Cys Gln Gly Ala Gln Val Ser Ile  
 145 150 155 160  
 Ala Gly Ala Leu Val Ile Leu Trp Gly  
 165 169

<210> 1410  
 <211> 146  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1410  
 Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr Leu Gln Asn Gly Trp  
 1 5 10 15  
 Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe Arg Ala Gly Asp His  
 20 25 30  
 Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn Pro Val Arg Ala Val  
 35 40 45  
 Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu Gly Asp Pro Gln Asn  
 50 55 60  
 Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg Glu Ser Asp Ala Gly  
 65 70 75 80  
 Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met Lys Trp Asn Tyr Lys  
 85 90 95  
 Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser Gln Asp Leu Leu Ser  
 100 105 110  
 Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr Val Gln Glu Gly Leu  
 115 120 125  
 Cys Val Ser Val Pro Trp Gln Cys Pro Leu Pro Pro Leu Gln Leu Asp  
 130 135 140

Cys Leu  
145 146

<210> 1411  
<211> 250  
<212> Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(250)  
<223> X = any amino acid or stop code

<400> 1411  
Gln Leu Gln Leu Cys Gln Asn Cys Thr Lys Arg Gly Glu Cys His Cys  
1 5 10 15  
Val Pro Phe Asp Thr Tyr Ile Lys Thr Lys Lys Glu Lys Lys Arg Leu  
20 25 30  
Ser Val Leu Pro Pro Thr Arg Leu Met Glu Ala Arg Phe Ser Pro Ile  
35 40 45  
Asn Gln Ile Leu Pro Trp Cys Arg Gln Asp Leu Ala Ile Ser Ile Ser  
50 55 60  
Lys Ala Ile Asn Thr Gln Glu Ala Pro Val Lys Glu Lys His Ala Arg  
65 70 75 80  
Arg Ile Ile Leu Gly Thr His His Glu Lys Gly Ala Phe Thr Phe Trp  
85 90 95  
Ser Tyr Ala Ile Gly Leu Pro Leu Pro Ser Ser Ile Leu Ser Trp  
100 105 110  
Lys Phe Cys His Val Leu His Lys Val Leu Arg Asp Gly His Pro Asn  
115 120 125  
Val Leu His Asp Cys Gln Arg Tyr Arg Ser Asn Ile Arg Glu Ile Gly  
130 135 140  
Asp Leu Trp Gly His Leu His Asp Arg Tyr Gly Gln Leu Val Asn Val  
145 150 155 160  
Tyr Thr Lys Leu Leu Thr Lys Ile Ser Phe His Leu Lys His Pro  
165 170 175  
Gln Phe Pro Ala Gly Leu Glu Val Thr Asp Glu Val Leu Glu Lys Ala  
180 185 190  
Ala Gly Thr Asp Val Asn Asn Met Xaa Val Thr Leu His Gly Tyr Met  
195 200 205  
Ala Ser Ser Pro Arg Leu Pro His Ser Phe Leu Pro Arg Leu Thr Pro  
210 215 220  
Arg Arg Pro His Gly Ala Val Gly Leu Asn Glu Ser Val Ala Leu Leu  
225 230 235 240  
Val Asp Ala His Ala Pro Arg Asp Arg Gly  
245 250

<210> 1412  
<211> 169  
<212> Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(169)  
<223> X = any amino acid or stop code



```

<400> 1412
Ala Ala Pro His Arg Met Pro Arg Ala Pro His Phe Met Pro Leu Leu
 1          5          10          15
Leu Leu Leu Leu Leu Ser Leu Pro His Thr Gln Ala Ala Phe Pro
 20          25          30
Gln Asp Pro Leu Pro Leu Leu Ile Ser Asp Leu Gln Gly Thr Ser Pro
 35          40          45
Leu Ser Trp Leu Pro Ser Leu Glu Asp Asp Ala Val Ala Ala Xaa Leu
 50          55          60
Gly Leu Asp Phe Gln Arg Phe Leu Thr Leu Asn Arg Thr Leu Leu Val
 65          70          75          80
Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu Glu Glu
 85          90          95
Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser Gln Asp
100          105          110
Val Glu Asn Cys Ala Val Arg Xaa Lys Leu Thr Leu Asn Arg Thr Leu
115          120          125
Leu Val Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu
130          135          140
Glu Glu Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser
145          150          155          160
Gln Asp Val Glu Asn Cys Ala Val Arg
          165          169

```

```

<210> 1413
<211> 131
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> X = any amino acid or stop code

```

```

<400> 1413
His Leu Val Pro Lys Thr Arg Gly Arg Gly Thr Pro Ser Gly Asp Gln
 1          5          10          15
Ser Pro Val Leu Thr Leu Thr Pro Xaa Gly Asp Pro Pro Thr Ile Leu
 20          25          30
Gly Pro Gln Thr Asn Gln Pro Lys Glu His Leu Thr Asn Phe Lys Ser
 35          40          45
Gly Lys Arg Ser Phe His Ser Leu Leu Gln Pro Leu Leu Leu Leu
 50          55          60
His Pro Ser Ile Ser Pro Phe Leu Asn Phe Gly Ser Phe Pro Phe Leu
 65          70          75          80
Val Glu Thr Glu Glu Thr Cys Phe Ile His Lys Leu Lys Thr Pro Ala
 85          90          95
Leu Val Thr Pro Asp Ser Leu Pro Leu Val Phe Asn His Cys Gly Asp
100          105          110
Ala Cys Leu Ile Ile His Pro His Phe Arg Asp Val Glu Phe His His
115          120          125
Thr Gly Asn
130 131

```

```

<210> 1414

```

<211> 365  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1414  
 Cys Cys Ser Thr Lys Asn Ile Ser Gly Asp Lys Ala Cys Asn Leu Met  
 1 5 10 15  
 Ile Phe Asp Thr Arg Lys Thr Ala Arg Gln Pro Asn Cys Tyr Leu Phe  
 20 25 30  
 Phe Cys Pro Asn Glu Glu Ala Cys Pro Leu Lys Pro Ala Lys Gly Leu  
 35 40 45  
 Met Ser Tyr Arg Ile Ile Thr Asp Phe Pro Ser Leu Thr Arg Asn Leu  
 50 55 60  
 Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe  
 65 70 75 80  
 Ser Gln Ala Val Thr Pro Leu Ala His His Thr Asp Tyr Ser Lys  
 85 90 95  
 Pro Thr Asp Ile Ser Trp Arg Asp Thr Leu Ser Gln Lys Phe Gly Ser  
 100 105 110  
 Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln  
 115 120 125  
 Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser  
 130 135 140  
 Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu  
 145 150 155 160  
 Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro  
 165 170 175  
 Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly  
 180 185 190  
 Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val  
 195 200 205  
 Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala  
 210 215 220  
 Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr  
 225 230 235 240  
 Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe  
 245 250 255  
 Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro  
 260 265 270  
 Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr  
 275 280 285  
 Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly  
 290 295 300  
 Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu  
 305 310 315 320  
 Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val  
 325 330 335  
 Leu Leu Gly Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser  
 340 345 350  
 Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile  
 355 360 365

<210> 1415  
 <211> 148  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(148)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1415

```

Ile Phe Ala Gly Ser Gly Val Met Arg Leu Lys Ile Ser Leu Leu Lys
 1           5           10           15
Glu Pro Lys His Gln Glu Leu Val Ser Cys Val Gly Trp Thr Thr Ala
          20           25           30
Glu Glu Leu Tyr Ser Cys Ser Asp Asp His His Ile Val Lys Trp Asn
          35           40           45
Leu Leu Thr Ser Glu Thr Thr Gln Ile Val Lys Leu Pro Asp Asp Ile
          50           55           60
Tyr Pro Ile Asp Phe His Trp Phe Pro Lys Ser Leu Gly Val Lys Lys
          65           70           75           80
Gln Thr His Ala Glu Ser Phe Val Leu Thr Ser Ser Asp Gly Lys Phe
          85           90           95
His Leu Ile Ser Lys Leu Gly Arg Val Glu Lys Ser Val Glu Ala His
          100          105          110
Cys Gly Ala Val Leu Ala Gly Arg Trp Asn Tyr Glu Gly Thr Ala Leu
          115          120          125
Val Thr Val Gly Glu Asp Gly Gln Ile Xaa Ile Trp Ser Lys Thr Gly
          130          135          140
Met Leu Ile Ser
145          148

```

&lt;210&gt; 1416

&lt;211&gt; 122

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(122)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1416

```

Ala Arg Ala Thr Thr Lys Arg His Phe Ile Leu Leu Phe Leu Phe Phe
 1           5           10           15
Leu Arg Arg Cys Leu Phe Leu Ser Pro Arg Met Glu Cys Asn Gly Ala
          20           25           30
Ile Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Ser Ser Ser
          35           40           45
Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr Asp Val Arg His His Ala
          50           55           60
Gln Leu Ile Leu Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val
          65           70           75           80
Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Leu Leu Thr Ser
          85           90           95
Ala Ser Gln Ser Ala Gly Ile Ile Met Gly Ile Ser His Cys Ala Gln
          100          105          110
Pro Lys Lys Ala Phe Xaa Thr Lys Thr Phe
          115          120          122

```

&lt;210&gt; 1417

<211> 138  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(138)  
 <223> X = any amino acid or stop code

<400> 1417  
 Glu Ala Gly Ser Asn Asp Asp Leu Ala Thr Xaa Lys Thr Cys Gly Arg  
 1 5 10 15  
 Ala Arg Pro Ser Ser Arg Ser Arg Gln Phe Gly Ser Arg Val Tip Asn  
 20 25 30  
 His Arg Gln Gly Val Arg Ser Ser Pro Gly Glu Gly Ala Gly Ser Arg  
 35 40 45  
 Ser Pro Cys Arg Arg Arg His Arg Arg Lys His Arg Arg Asn Val Gln  
 50 55 60  
 Ser Pro Xaa Arg Arg Arg Ser Arg Ser Cys Ser Arg Arg Ser Gly Arg  
 65 70 75 80  
 Cys Ser Val Ala Leu Leu Gly Ala Cys Pro Val Ala Gly His Ser Arg  
 85 90 95  
 Gly Lys Val Val Cys Arg Arg Ala His Ala Ile Thr Gln Arg Arg Arg  
 100 105 110  
 Cys Cys Gly Phe Asp Pro Met Val His Pro Lys Glu His Arg Gly Xaa  
 115 120 125  
 Arg Glu Arg Ser Arg Lys Trp Ser Arg Ser  
 130 135 138

<210> 1418  
 <211> 92  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(92)  
 <223> X = any amino acid or stop code

<400> 1418  
 Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys  
 1 5 10 15  
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala  
 20 25 30  
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys  
 35 40 45  
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr  
 50 55 60  
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys  
 65 70 75 80  
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe  
 85 90 92

<210> 1419

<211> 44  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1419  
 Leu Thr Val Asn Tyr Val Leu Val Phe Ser Arg Asp Ser Gly Leu Arg  
     1                    5                    10                    15  
 Ala Ile Glu Asn Leu Met Gln Lys Lys Gly Lys Phe Asp Tyr Ile Leu  
                     20                    25                    30  
 Leu Glu Thr Thr Gly Leu Ala Asp Pro Gly Lys Lys  
             35                    40                    44

<210> 1420  
 <211> 91  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1420  
 His Glu Ala Ala Leu Cys Arg Thr Arg Ala Val Ala Ala Glu Arg His  
     1                    5                    10                    15  
 Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe Arg Gly Val Gly Thr  
                     20                    25                    30  
 Glu Ser Gly Ser Glu Ser Gly Ser Ser Lys Ala Lys Glu Pro Arg Thr  
                     35                    40                    45  
 Pro Ser Ser Ser Tyr Gly Thr Ala Gln Tyr Arg Arg Trp Pro Ile Ala  
                     50                    55                    60  
 Gln Glu Tyr Lys His Cys Thr Ala His Asn Asp Thr Gly Thr Leu Cys  
     65                    70                    75                    80  
 Ser Glu Leu Arg Glu Pro Trp Arg Arg Pro Gln  
                     85                    90                    91

<210> 1421  
 <211> 190  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(190)  
 <223> X = any amino acid or stop code

<400> 1421  
 Glu Gly Ser Ser Gln Ala Asn Thr Leu Arg Ser Arg Lys Glu Asn Arg  
     1                    5                    10                    15  
 Asn Asn Leu Leu Ala Cys Leu Glu Ser His Val Leu Arg Xaa Gln Phe  
                     20                    25                    30  
 Thr Glu Ser His Leu Cys Ser Leu Met Gly Asp Asn Pro Gln Pro  
                     35                    40                    45  
 Lys Ser Asn Ser Lys Met Ala Glu Leu Phe Met Glu Cys Glu Glu Glu  
     50                    55                    60

Glu Leu Glu Pro Trp Gln Lys Lys Val Lys Glu Val Glu Asp Asp Asp  
 65 70 75 80  
 Asp Asp Glu Pro Ile Phe Val Gly Glu Ile Ser Ser Ser Lys Pro Ala  
 85 90 95  
 Ile Ser Asn Ile Leu Asn Arg Val Asn Pro Ser Ser Tyr Ser Arg Gly  
 100 105 110  
 Leu Lys Asn Gly Ala Leu Ser Arg Gly Ile Thr Ala Ala Phe Lys Pro  
 115 120 125  
 Thr Ser Gln His Tyr Thr Asn Pro Thr Ser Asn Pro Val Pro Ala Ser  
 130 135 140  
 Pro Ile Asn Phe His Pro Glu Ser Arg Ser Ser Asp Ser Ser Val Ile  
 145 150 155 160  
 Gly Gln Pro Phe Ser Lys Ser Val Ser Val Ser Lys Thr Ile Arg Pro  
 165 170 175  
 Ala Gln Gly Ser Ile Gly Cys Cys Leu Ser Ile Ser Thr Val  
 180 185 190

&lt;210&gt; 1422

&lt;211&gt; 207

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1422

Cys Phe Ser Leu Glu Asp Ile Leu Asn Phe Phe Leu Gln Gly Phe Ser  
 1 5 10 15  
 Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu Thr  
 20 25 30  
 Ser Arg Phe Ala Asp Gly Leu Pro Pro Phe Asn Tyr Ser Leu Gly Leu  
 35 40 45  
 Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Glu Arg Leu Trp Asp  
 50 55 60  
 Val Arg Asp Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr  
 65 70 75 80  
 Pro Arg Val Val Glu Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu  
 85 90 95  
 Glu Gly Met Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn  
 100 105 110  
 His Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His  
 115 120 125  
 Thr Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp  
 130 135 140  
 Thr Gly Arg Gln Met Leu Ser Pro Tyr Cys Asp Thr Leu Arg Ser Asn  
 145 150 155 160  
 Pro Leu Gln Lys Thr Cys Arg Gln Asp Gln Arg Ala Val Ala Val Cys  
 165 170 175  
 Asn Leu Gln Lys Phe Pro Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe  
 180 185 190  
 Asp Glu Leu Ser Gly Ile Pro Ala Glu Asp Leu Pro Tyr Tyr Gly  
 195 200 205 207

&lt;210&gt; 1423

&lt;211&gt; 423

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1423  
 Ala Ala Arg Arg Arg Arg Gln Leu Val Ser Arg Arg Arg Thr Ala Glu  
 1 5 10 15  
 Tyr Pro Arg Arg Arg Arg Ser Ser Pro Ser Ala Arg Pro Pro Asp Val  
 20 25 30  
 Pro Gly Gln Gln Pro Lys Ala Ala Lys Ser Pro Ser Pro Val Gln Gly  
 35 40 45  
 Lys Lys Ser Pro Arg Leu Leu Cys Ile Glu Lys Val Thr Thr Asp Lys  
 50 55 60  
 Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp Asp Ser Ala Leu Pro Gln  
 65 70 75 80  
 Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp Arg Ser Ser  
 85 90 95  
 Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr Arg Ser Ser  
 100 105 110  
 Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser Glu Pro Asn  
 115 120 125  
 Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln Ser Pro Gly  
 130 135 140  
 Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Met Leu Ile  
 145 150 155 160  
 Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp Glu Thr Tyr  
 165 170 175  
 Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg Lys Ser Gly  
 180 185 190  
 Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val Glu Val Glu  
 195 200 205  
 Val Glu Val Lys Glu Glu Asn Glu Ile Arg Glu Asp Glu Glu Pro  
 210 215 220  
 Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser Pro Arg Leu  
 225 230 235 240  
 Pro Lys Arg Arg Lys Lys Pro Pro Ile Glu Tyr Val Arg Cys Glu Met  
 245 250 255  
 Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu Gln His His  
 260 265 270  
 Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys Pro His Pro  
 275 280 285  
 Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu Arg His Ala  
 290 295 300  
 Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr Cys Ala Arg  
 305 310 315 320  
 Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met Ile His Thr  
 325 330 335  
 Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr Cys Arg Gln  
 340 345 350  
 Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala Asp Ser Phe  
 355 360 365  
 Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu Lys Lys Asp  
 370 375 380  
 Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val Leu Ile Ala  
 385 390 395 400  
 Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser Thr Asp Ile  
 405 410 415  
 Leu Gly Thr Asn Pro Glu Ser  
 420 423

&lt;210&gt; 1424

&lt;211&gt; 158

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

```

<400> 1424
Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu Ser Gln Gln
 1           5           10           15
Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu Ser Glu
 20           25           30
Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Gln Lys Leu Leu Glu
 35           40           45
Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Glu Arg
 50           55           60
Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly
 65           70           75           80
Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
 85           90           95
Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Lys Ser
100           105           110
Lys Lys Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile
115           120           125
His Arg Glu Val Ala Phe Asn Lys Thr Ala Gln Val Leu Ser Lys Trp
130           135           140
Asp Pro Val Val Leu Lys Asn Arg Gln Ala Glu Gln Leu *
145           150           155           157

```

<210> 1425

<211> 286

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(286)

<223> X = any amino acid or stop code

```

<400> 1425
Arg Ile Asp Phe Met Phe His Ser Ser Ala Met Val Asn Ser His Arg
 1           5           10           15
Lys Pro Met Phe Asn Ile His Arg Gly Phe Tyr Cys Leu Thr Ala Ile
 20           25           30
Leu Pro Gln Ile Cys Ile Cys Ser Gln Phe Ser Val Pro Ser Ser Tyr
 35           40           45
His Phe Thr Glu Asp Pro Gly Ala Phe Pro Val Ala Thr Asn Gly Glu
 50           55           60
Arg Phe Pro Trp Gln Glu Leu Arg Leu Pro Ser Val Val Ile Pro Leu
 65           70           75           80
His Tyr Asp Leu Phe Val His Pro Asn Leu Thr Ser Leu Asp Phe Val
 85           90           95
Ala Ser Glu Lys Ile Glu Val Leu Val Ser Asn Ala Thr Gln Leu Ile
100           105           110
Ile Leu His Ser Lys Asp Leu Glu Ile Thr Asn Ala Thr Leu Gln Ser
115           120           125
Glu Glu Asp Ser Arg Tyr Met Lys Pro Gly Lys Glu Leu Lys Val Leu
130           135           140
Ser Tyr Pro Ala His Glu Gln Ile Ala Leu Leu Val Pro Glu Lys Leu
145           150           155           160
Thr Pro His Leu Lys Tyr Tyr Val Ala Met Asp Phe Gln Ala Lys Leu
165           170           175
Gly Asp Gly Phe Glu Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Leu Gly

```



	180		185		190										
Gly	Glu	Thr	Arg	Ile	Leu	Ala	Val	Thr	Asp	Phe	Glu	Pro	Thr	Gln	Ala
	195						200				205				
Arg	Met	Ala	Phe	Pro	Cys	Phe	Asp	Glu	Pro	Leu	Phe	Lys	Ala	Asn	Phe
	210					215					220				
Ser	Ile	Lys	Ile	Arg	Arg	Glu	Ser	Arg	His	Ile	Ala	Leu	Ser	Asn	Met
225				230					235					240	
Pro	Lys	Val	Lys	Thr	Ile	Glu	Leu	Glu	Gly	Gly	Leu	Leu	Glu	Asp	His
			245					250						255	
Phe	Glu	Thr	Thr	Val	Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Tyr	Ile	Asp
	260						265						270		
Leu	Xaa	Phe	Pro	Leu	Met	Gly	Asn	Asp	Phe	Leu	Gly	Arg	Ser		
	275						280						285	286	

<210> 1426  
 <211> 224  
 <212> Amino acid  
 <213> Homo sapiens

	<400>	1426													
Arg	Ser	Lys	Ile	Pro	Arg	Ser	Asp	Pro	Arg	Val	Arg	Thr	Pro	Ala	Pro
1				5					10					15	
Ala	Glu	Ala	Glu	Gln	Gly	Lys	Ser	Gln	Cys	Pro	Ser	Gly	Ser	Thr	Ala
			20					25					30		
Gln	Ser	Trp	Ser	Ala	Met	Asp	Ile	Leu	Val	Pro	Leu	Leu	Gln	Leu	Leu
		35					40					45			
Val	Leu	Leu	Leu	Thr	Leu	Pro	Leu	His	Leu	Met	Ala	Leu	Leu	Gly	Cys
	50					55				60					
Trp	Gln	Pro	Leu	Cys	Lys	Ser	Tyr	Phe	Pro	Tyr	Leu	Met	Ala	Val	Leu
	65				70				75				80		
Thr	Pro	Lys	Ser	Asn	Arg	Lys	Met	Glu	Ser	Lys	Lys	Arg	Glu	Leu	Phe
			85					90					95		
Ser	Gln	Ile	Lys	Gly	Leu	Thr	Gly	Ala	Ser	Gly	Lys	Val	Ala	Leu	Leu
		100					105						110		
Glu	Leu	Gly	Cys	Gly	Thr	Gly	Ala	Asn	Phe	Gln	Phe	Tyr	Pro	Pro	Gly
	115					120						125			
Cys	Arg	Val	Thr	Cys	Leu	Asp	Pro	Asn	Pro	His	Phe	Glu	Lys	Phe	Leu
	130				135						140				
Thr	Lys	Ser	Met	Ala	Glu	Asn	Arg	His	Leu	Gln	Tyr	Glu	Arg	Phe	Val
	145				150					155				160	
Val	Ala	Pro	Gly	Glu	Asp	Met	Arg	Gln	Leu	Ala	Asp	Gly	Ser	Met	Asp
			165					170						175	
Val	Val	Val	Cys	Thr	Leu	Val	Leu	Cys	Ser	Val	Gln	Ser	Pro	Arg	Lys
		180						185					190		
Val	Leu	Gln	Glu	Val	Arg	Arg	Val	Leu	Arg	Pro	Gly	Gly	Val	Leu	Phe
	195						200					205			
Phe	Trp	Glu	His	Val	Ala	Glu	Pro	Tyr	Gly	Ser	Trp	Ala	Phe	Met	Trp
	210					215					220				224

<210> 1427  
 <211> 133  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1427

```

Arg Leu Gln Asn Ser Ser Leu Met Asp Pro Lys Leu Gly Arg Met Ala
 1              5              10              15
Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Glu Arg Gly Met
              20              25              30
Phe Ser Ser Pro Ser Pro Pro Pro Ala Leu Leu Glu Lys Val Phe Gln
              35              40              45
Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys Glu Trp
              50              55              60
Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe Arg Gln
              65              70              75              80
Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln Arg Leu
              85              90              95
Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu Pro Asp
              100              105              110
Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu Gly Ser
              115              120              125
Asp Pro Thr Lys Gly
              130              133

```

&lt;210&gt; 1428

&lt;211&gt; 38

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1428

```

Phe Phe Phe Phe Glu Met Glu Ser Cys Ser Val Thr Gln Ala Gly Val
 1              5              10              15
Pro Trp His Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Arg Phe Lys
              20              25              30
Arg Phe Ser Cys Leu Ser
              35              38

```

&lt;210&gt; 1429

&lt;211&gt; 145

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1429

```

Asp Pro Lys Ala Gln Leu Pro Glu Pro Leu Arg Val Leu Trp Thr Ala
 1              5              10              15
His Leu Val Ala Met Ala Pro Gly Ser Arg Thr Ser Leu Leu Ala Ala
              20              25              30
Phe Ala Leu Leu Cys Leu Pro Trp Leu Gln Glu Ala Gly Ala Val Gln
              35              40              45
Thr Val Pro Leu Ser Arg Leu Phe Asp His Ala Met Leu Gln Ala His
              50              55              60
Arg Ala His Gln Leu Ala Ile Asp Thr Tyr Gln Glu Phe Glu Glu Thr
              65              70              75              80
Tyr Ile Pro Lys Asp Gln Lys Tyr Ser Phe Leu His Asp Ser Gln Thr
              85              90              95
Ser Phe Cys Phe Ser Asp Ser Ile Pro Thr Pro Ser Asn Met Glu Glu

```

100 105 110  
 Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu  
 115 120 125  
 Ile Glu Ser Trp Leu Glu Pro Val Arg Ile Leu Met Ser Ile Val Pro  
 130 135 140  
 Asn  
 145

<210> 1430  
 <211> 453  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1430  
 Phe Val Lys Leu Ile Lys Lys His Gln Ala Ala Met Glu Lys Glu Ala  
 1 5 10 15  
 Lys Val Met Ser Asn Glu Glu Lys Lys Phe Gln Gln His Ile Gln Ala  
 20 25 30  
 Gln Gln Lys Lys Glu Leu Asn Ser Phe Leu Glu Ser Gln Lys Arg Glu  
 35 40 45  
 Tyr Lys Leu Arg Lys Glu Gln Leu Lys Glu Glu Leu Asn Glu Asn Gln  
 50 55 60  
 Ser Thr Pro Lys Lys Glu Lys Gln Glu Trp Leu Ser Lys Gln Lys Glu  
 65 70 75 80  
 Asn Ile Gln His Phe Gln Ala Glu Glu Glu Ala Asn Leu Leu Arg Arg  
 85 90 95  
 Gln Arg Gln Tyr Leu Glu Leu Glu Cys Arg Arg Phe Lys Arg Arg Met  
 100 105 110  
 Leu Leu Gly Arg His Asn Leu Glu Gln Asp Leu Val Arg Glu Glu Leu  
 115 120 125  
 Asn Lys Arg Gln Thr Gln Lys Asp Leu Glu His Ala Met Leu Leu Arg  
 130 135 140  
 Gln His Glu Ser Met Gln Glu Leu Glu Phe Arg His Leu Asn Thr Ile  
 145 150 155 160  
 Gln Lys Met Arg Cys Glu Leu Ile Arg Leu Gln His Gln Thr Glu Leu  
 165 170 175  
 Thr Asn Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg Glu Leu Arg Arg  
 180 185 190  
 Lys His Val Met Glu Val Arg Gln Gln Pro Lys Ser Leu Lys Ser Lys  
 195 200 205  
 Glu Leu Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys Lys Ile Gln Thr  
 210 215 220  
 Arg Gln Tyr Lys Ala Leu Arg Asn His Leu Leu Glu Thr Thr Pro Lys  
 225 230 235 240  
 Ser Glu His Lys Ala Val Leu Lys Arg Leu Lys Glu Glu Gln Thr Arg  
 245 250 255  
 Lys Leu Ala Ile Leu Ala Glu Gln Tyr Asp His Ser Ile Asn Glu Met  
 260 265 270  
 Leu Ser Thr Gln Ala Leu Arg Leu Asp Glu Ala Gln Glu Ala Glu Cys  
 275 280 285  
 Gln Val Leu Lys Met Gln Leu Gln Gln Glu Leu Glu Leu Leu Asn Ala  
 290 295 300  
 Tyr Gln Ser Lys Ile Lys Met Gln Ala Glu Ala Gln His Asp Arg Glu  
 305 310 315 320  
 Leu Arg Glu Leu Glu Gln Arg Val Ser Leu Arg Arg Ala Leu Leu Glu  
 325 330 335  
 Gln Lys Ile Glu Glu Glu Met Leu Ala Leu Gln Asn Glu Arg Thr Glu  
 340 345 350  
 Arg Ile Arg Ser Leu Leu Glu Arg Gln Ala Arg Glu Ile Glu Ala Phe

```

      355              360              365
Aap Ser Glu Ser Met Arg Leu Gly Phe Ser Asn Met Val Leu Ser Asn
  370              375              380
Leu Ser Pro Glu Ala Phe Ser His Ser Tyr Pro Gly Ala Ser Gly Trp
 385              390              395              400
Ser His Asn Pro Thr Gly Gly Pro Gly Pro His Trp Gly His Pro Met
      405              410              415
Gly Gly Pro Pro Gln Ala Trp Gly His Pro Met Gln Gly Gly Pro Gln
  420              425              430
Pro Trp Gly His Pro Ser Gly Pro Met Gln Gly Val Pro Arg Gly Ser
      435              440              445
Ser Met Gly Val Arg
  450              453

```

<210> 1431  
 <211> 151  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 1431
Leu Ala His Gly Ser Phe Gly Val Ser Asp Phe Pro Ala Pro Ala Ala
  1              5              10              15
Ala Pro Ala His Thr Leu Thr Ser Phe Ser Gly Ser Leu Ser Pro Gln
      20              25              30
Phe Arg Lys Pro Leu Gly Arg Ala Pro Ala Met Pro Leu Val Arg Tyr
      35              40              45
Arg Lys Val Val Ile Leu Gly Tyr Arg Cys Val Gly Lys Thr Ser Leu
      50              55              60
Ala His Gln Phe Val Glu Gly Glu Phe Ser Glu Gly Tyr Asp Pro Thr
  65              70              75              80
Val Glu Asn Thr Tyr Ser Lys Ile Val Thr Leu Gly Lys Asp Glu Phe
      85              90              95
His Leu His Leu Val Asp Thr Ala Gly Gln Asp Glu Tyr Ser Ile Leu
      100              105              110
Pro Tyr Ser Phe Ile Ile Gly Val His Gly Tyr Val Leu Val Tyr Ser
      115              120              125
Val Thr Ser Leu His Ser Phe Gln Val Ile Glu Ser Leu Tyr Gln Lys
      130              135              140
Leu His Glu Gly His Gly Lys
  145              150 151

```

<210> 1432  
 <211> 514  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 1432
Ser Ser Pro Ser Arg Glu Leu Cys Phe Tyr Gly Phe Trp Ile Ala Ser
  1              5              10              15
Ser Trp Trp Ser Arg Trp Val Gly Ser Leu Gly Pro Gly Ile Leu Pro
      20              25              30
Ser Pro Pro Ala Arg Gly Arg Thr Phe Ala Ser Val Ser Arg Leu Pro
      35              40              45
Pro Pro Trp Ser Ala Gly Ile Thr Leu Thr Pro Phe Leu Ile Cys Gln

```

50 55 60  
 Ser Gly Ser Val Cys Pro Gly Leu Gly Ala Gly Phe Gly Val Arg Ser  
 65 70 75 80  
 Phe His His Pro Val Ala Arg Ser Ala Val Leu Leu Leu Pro Leu Ala  
 85 90 95  
 Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser Thr Pro Gly Ser Pro  
 100 105 110  
 Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala Leu Leu Thr Pro Thr  
 115 120 125  
 Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala Thr His Gly Cys Arg  
 130 135 140  
 Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu Asn His Gly Leu Val  
 145 150 155 160  
 Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr Ala Ser Trp Phe Glu  
 165 170 175  
 Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser Asn His Val Tyr Tyr  
 180 185 190  
 Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser Ile Leu Ser Pro Asn  
 195 200 205  
 Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val Ser Pro Thr Thr Met  
 210 215 220  
 Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr Glu Arg Gln Thr Phe  
 225 230 235 240  
 Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val Glu Glu Leu Leu Gln  
 245 250 255  
 Ser Ser Leu Ser Leu Gly Gly Gln Glu Gln Ala Pro Glu His Lys Gln  
 260 265 270  
 Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr Gln Glu His Lys Gln  
 275 280 285  
 Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu Glu Glu Glu Glu  
 290 295 300  
 Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu Gly Arg Glu Ala Val  
 305 310 315 320  
 Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe His Ser Glu Ser Leu  
 325 330 335  
 Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val Arg Glu Val Glu Ser  
 340 345 350  
 Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu Ile Arg Ser Ala Gln  
 355 360 365  
 Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu Asn Ser Tyr Trp Arg  
 370 375 380  
 Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro His Thr Glu Ala Leu  
 385 390 395 400  
 Leu Val Leu Cys Tyr Ser Ile Val Glu Asn Thr Cys Ile Ile Thr Pro  
 405 410 415  
 Thr Ala Lys Ala Trp Lys Tyr Met Glu Glu Glu Ile Leu Gly Phe Gly  
 420 425 430  
 Lys Ser Val Cys Asp Ser Leu Gly Arg Arg His Met Ser Thr Cys Ala  
 435 440 445  
 Leu Cys Asp Phe Cys Ser Leu Lys Leu Glu Gln Cys His Ser Glu Ala  
 450 455 460  
 Ser Leu Gln Arg Gln Gln Cys Asp Thr Ser His Lys Thr Pro Phe Val  
 465 470 475 480  
 Ser Pro Leu Leu Ala Ser Gln Ser Leu Ser Ile Gly Asn Gln Val Gly  
 485 490 495  
 Ser Pro Glu Ser Gly Arg Phe Tyr Gly Leu Asp Leu Tyr Gly Gly Leu  
 500 505 510  
 His Met  
 514

&lt;210&gt; 1433

&lt;211&gt; 241

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (241)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1433

```

Val Ser Trp Val Pro Ser Lys Asp Gly Asp Val Glu Gly Ala Arg Arg
 1           5           10           15
Pro Phe Thr Arg Leu Asn Thr Ser Leu Gly Pro Gly Leu Gln Glu Gly
      20           25           30
Arg Arg Arg Thr Trp Leu Val Pro Ile Pro Gly Ala Val Leu Pro Gly
      35           40           45
Arg Thr Gln Glu Gln Pro Arg Ala Ser Pro Leu Tyr Xaa Pro Gly Ala
      50           55           60
Pro Pro Cys Gln Pro Gln Gly Leu Val Ala Gly Pro Trp Ala Gln Xaa
      65           70           75           80
Ala Gly Leu Arg Ser Asp Gly Phe Gly Pro Trp Pro Trp Arg Leu Val
      85           90           95
Gly Thr Ala Gly Pro Arg Glu Lys Lys Val Gln Lys Ser Lys Cys Trp
      100          105          110
His Phe Arg Cys Gly Arg His Pro Ala Arg Arg Ser Gly Trp Ala Gly
      115          120          125
Arg His Ala Ser Leu Leu Ala Thr Gly Arg Pro Cys Ser Ser Ala Pro
      130          135          140
Ser Gln Gln Pro Leu Gly Thr Ala Gly Asp Ser Arg Gln Glu Leu Leu
      145          150          155          160
Arg Pro Pro Leu Val Xaa Val Asn Gly Ala Gln Ser Ser Ala Ala Gly
      165          170          175
Asp Trp Gly Ser Ser Pro Arg Thr Ala Gln Ala Leu Ala Arg Pro His
      180          185          190
Arg Leu Gly His His Pro Ala Ala Val Ala Pro Ala Ala Arg Leu Arg
      195          200          205
Thr Gln Ser Gly His Ser Pro Arg Gly Pro Leu Cys Arg Ser Pro Gly
      210          215          220
Ser Pro Arg Arg Met Gly Thr Trp Arg Gly Pro Ala Gly His Ser His
      225          230          235          240
Asp
241

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&lt;210&gt; 1434

&lt;211&gt; 127

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1434

```

Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe
 1           5           10           15
Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr
      20           25           30
Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly
      35           40           45
Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser
      50           55           60

```

Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala  
 65 70 75 80  
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln  
 85 90 95  
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro  
 100 105 110  
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe  
 115 120 125 127

<210> 1435  
 <211> 182  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1435  
 Gly Glu Cys Phe Ile Met Ala Ala Val Val Gln Gln Asn Asp Leu Val  
 1 5 10 15  
 Phe Glu Phe Ala Ser Asn Val Met Glu Asp Glu Arg Gln Leu Gly Asp  
 20 25 30  
 Pro Ala Ile Phe Pro Ala Val Ile Val Glu His Val Pro Gly Ala Asp  
 35 40 45  
 Ile Leu Asn Ser Tyr Ala Gly Leu Ala Cys Val Glu Glu Pro Asn Asp  
 50 55 60  
 Met Ile Thr Glu Ser Ser Leu Asp Val Ala Glu Glu Glu Ile Ile Asp  
 65 70 75 80  
 Asp Asp Asp Asp Asp Ile Thr Leu Thr Val Glu Ala Ser Cys His Asp  
 85 90 95  
 Gly Asp Glu Thr Ile Glu Thr Ile Glu Ala Ala Glu Ala Leu Leu Asn  
 100 105 110  
 Met Asp Ser Pro Gly Pro Met Leu Asp Glu Lys Arg Ile Asn Asn Asn  
 115 120 125  
 Ile Phe Ser Ser Pro Glu Asp Asp Met Val Val Ala Pro Val Thr His  
 130 135 140  
 Val Ser Val Thr Leu Asp Gly Ile Pro Glu Val Met Glu Thr Gln Gln  
 145 150 155 160  
 Val Gln Glu Lys Tyr Ala Asp Ser Pro Gly Ala Ser Ser Pro Glu Gln  
 165 170 175  
 Pro Lys Arg Lys Lys Lys  
 180 182

<210> 1436  
 <211> 154  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1436  
 His Glu Ala Ser Gly Val Ser Arg Ala Leu Leu Gln Ser Ala Pro Gly  
 1 5 10 15  
 Thr Pro Ala Thr Val Gly Ile Ser Val Gly Glu Leu Trp Pro Phe Ala  
 20 25 30  
 Arg Cys Cys Ser His Ser Tyr Val Arg Ser Leu Arg Gly Leu Ser Val  
 35 40 45  
 Ser Thr His Leu Leu Cys Phe Thr Ile Tyr Ile Met Asn Pro Ser Met  
 50 55 60

```

Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile Lys Thr Ser Ser Val
65          70          75          80
Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser Ala Ser Gly Ser Leu
          85          90          95
Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu Ser Lys Arg Lys His
100        105        110
Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser Pro Gly Val Ile Val
115        120        125
Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly Val Thr Gln Glu Ser
130        135        140
Phe Asp Leu Met Ile Lys Gly Met Lys Lys
145        150        154

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<210> 1437
<211> 63
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1437
Pro Leu Pro Ala Arg Gly Lys Ser Thr Leu Pro Ala Thr Phe Cys Ser
1          5          10          15
Pro Ser Ala Pro Glu Leu Ala Ser Met Ser Val Val Pro Pro Asn Arg
20        25        30
Ser Gln Thr Gly Trp Pro Arg Gly Val Thr Gln Phe Gly Asn Lys Tyr
35        40        45
Ile Gln Gln Thr Lys Pro Leu Thr Leu Glu Arg Thr Ile Asn Leu
50        55        60        63

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<210> 1438
<211> 140
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1438
Ala Glu Gly Glu Asp Val Pro Pro Leu Pro Thr Ser Ser Gly Asp Gly
1          5          10          15
Trp Glu Lys Asp Leu Glu Glu Ala Leu Glu Ala Gly Gly Cys Asp Leu
20        25        30
Glu Thr Leu Arg Asn Ile Ile Gln Gly Arg Pro Leu Pro Ala Asp Leu
35        40        45
Arg Ala Lys Val Trp Lys Ile Ala Leu Asn Val Ala Gly Lys Gly Asp
50        55        60
Ser Leu Ala Ser Trp Asp Gly Ile Leu Asp Leu Pro Glu Gln Asn Thr
65        70        75        80
Ile His Lys Asp Cys Leu Gln Phe Ile Asp Gln Leu Ser Val Pro Glu
85        90        95
Glu Lys Ala Ala Glu Leu Leu Leu Asp Ile Glu Ser Val Ile Thr Phe
100       105       110
Tyr Cys Lys Ser Arg Asn Ile Lys Tyr Ser Thr Ser Leu Ser Trp Ile
115       120       125
His Leu Leu Lys Pro Leu Val His Leu Gln Leu Pro
130       135       140

```



<210> 1439  
 <211> 84  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1439  
 Ala Leu Pro Lys Phe Leu Thr His Gly Val Lys Ser Asn Glu Arg Val  
 1 5 10 15  
 Val Val Trp Leu Phe Pro Pro Ser Phe Arg Ala Ala Thr Met Val His  
 20 25 30  
 Met Asn Val Leu Pro Asp Ala Leu Lys Ser Ile Asn Asn Ala Glu Arg  
 35 40 45  
 Arg Gly Lys Pro Gln Val Leu Ile Arg Leu Cys Ser Lys Ile Ile Ile  
 50 55 60  
 Trp Phe Leu Thr Val Met Val Lys Tyr Gly Tyr Ile Gly Lys Phe Glu  
 65 70 75 80  
 Pro Thr Arg Pro  
 84

<210> 1440  
 <211> 255  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1440  
 Ala Met Ala Gln Tyr Gly His Pro Ser Pro Leu Gly Met Ala Ala Arg  
 1 5 10 15  
 Glu Glu Leu Tyr Ser Lys Val Thr Pro Arg Arg Asn Arg Gln Gln Arg  
 20 25 30  
 Pro Gly Thr Ile Lys His Gly Ser Ala Leu Asp Val Leu Leu Ser Met  
 35 40 45  
 Gly Phe Pro Arg Ala Arg Ala Gln Lys Ala Leu Ala Ser Thr Gly Gly  
 50 55 60  
 Arg Ser Val Gln Ala Ala Cys Asp Trp Leu Phe Ser His Val Gly Asp  
 65 70 75 80  
 Pro Phe Leu Asp Asp Pro Leu Pro Arg Glu Tyr Val Leu Tyr Leu Arg  
 85 90 95  
 Pro Thr Gly Pro Leu Ala Gln Lys Leu Ser Asp Phe Trp Gln Gln Ser  
 100 105 110  
 Lys Gln Ile Cys Gly Lys Asn Lys Ala His Asn Ile Phe Pro His Ile  
 115 120 125  
 Thr Leu Cys Gln Phe Phe Met Cys Glu Asp Ser Lys Val Asp Ala Leu  
 130 135 140  
 Gly Glu Ala Leu Gln Thr Thr Val Ser Arg Trp Lys Cys Lys Phe Ser  
 145 150 155 160  
 Ala Pro Leu Pro Leu Glu Leu Tyr Thr Ser Ser Asn Phe Ile Gly Leu  
 165 170 175  
 Phe Val Lys Glu Asp Ser Ala Glu Val Leu Lys Lys Phe Ala Ala Asp  
 180 185 190  
 Phe Ala Ala Glu Ala Ala Ser Lys Thr Glu Val His Val Glu Pro His  
 195 200 205  
 Lys Lys Gln Leu His Val Thr Leu Ala Tyr His Phe Gln Ala Ser His  
 210 215 220  
 Leu Pro Thr Leu Glu Lys Leu Ala Gln Asn Ile Asp Val Lys Leu Gly  
 225 230 235 240

Cys Asp Trp Val Ala Thr Ile Phe Ser Arg Asp Ile Arg Phe Ala  
 245 250 255

<210> 1441  
 <211> 134  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1441  
 Gln Thr Arg Pro Ala Ser Pro Arg Thr Ala Arg Glu Ser Val Leu Gly  
 1 5 10 15  
 Val Ser Gln Asn Met Ser Phe Asn Leu Gln Ser Ser Lys Lys Leu Phe  
 20 25 30  
 Ile Phe Leu Gly Lys Ser Leu Phe Ser Leu Leu Glu Ala Met Ile Phe  
 35 40 45  
 Ala Leu Leu Pro Lys Pro Arg Lys Asn Val Ala Gly Glu Ile Val Leu  
 50 55 60  
 Ile Thr Gly Ala Gly Ser Gly Leu Gly Arg Leu Leu Ala Leu Gln Phe  
 65 70 75 80  
 Ala Arg Leu Gly Ser Val Leu Val Leu Trp Asp Ile Asn Lys Glu Gly  
 85 90 95  
 Asn Glu Glu Thr Cys Lys Met Ala Arg Glu Ala Gly Ala Thr Arg Val  
 100 105 110  
 His Ala Tyr Thr Cys Asp Cys Ser Gln Lys Glu Gly Val Tyr Arg Val  
 115 120 125  
 Ala Asp Gln Val Lys Lys  
 130 134

<210> 1442  
 <211> 155  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1442  
 Met Val Ala Arg Lys Gly Gln Lys Ser Pro Arg Phe Arg Arg Val Thr  
 1 5 10 15  
 Cys Phe Leu Arg Leu Gly Arg Ser Thr Leu Leu Glu Leu Glu Pro Ala  
 20 25 30  
 Gly Arg Pro Cys Ser Gly Arg Thr Arg His Arg Ala Leu His Arg Arg  
 35 40 45  
 Leu Val Ala Cys Val Thr Val Ser Ser Arg Arg His Arg Lys Glu Ala  
 50 55 60  
 Gly Arg Gly Arg Ala Glu Ser Phe Ile Ala Val Gly Met Ala Ala Pro  
 65 70 75 80  
 Ser Met Lys Glu Arg Gln Val Cys Trp Gly Ala Arg Asp Glu Tyr Trp  
 85 90 95  
 Lys Cys Leu Asp Glu Asn Leu Glu Asp Ala Ser Gln Cys Lys Lys Leu  
 100 105 110  
 Arg Ser Ser Phe Glu Ser Ser Cys Pro Gln Gln Trp Ile Lys Tyr Phe  
 115 120 125  
 Asp Lys Arg Arg Asp Tyr Leu Lys Phe Lys Glu Lys Phe Glu Ala Gly  
 130 135 140  
 Gln Phe Glu Pro Ser Glu Thr Thr Ala Lys Ser  
 145 150 155

<210> 1443  
 <211> 157  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1443  
 Pro Ala Pro Ala Ala Arg Ser Arg Glu Leu Leu Lys Glu Leu Arg Asn  
 1 5 10 15  
 Gly Gln Asp Met Asp Thr Val Val Phe Glu Asp Val Val Val Asp Phe  
 20 25 30  
 Thr Leu Glu Glu Trp Ala Leu Leu Asn Pro Ala Gln Arg Lys Leu Tyr  
 35 40 45  
 Arg Asp Val Met Leu Glu Thr Phe Lys His Leu Ala Ser Val Asp Asn  
 50 55 60  
 Glu Ala Gln Leu Lys Ala Ser Gly Ser Ile Ser Gln Gln Asp Thr Ser  
 65 70 75 80  
 Gly Glu Lys Leu Ser Leu Lys Gln Lys Ile Glu Lys Phe Thr Arg Lys  
 85 90 95  
 Asn Ile Trp Ala Ser Leu Leu Gly Lys Asn Trp Glu Glu His Ser Val  
 100 105 110  
 Lys Asp Lys His Asn Thr Lys Glu Arg His Leu Ser Arg Asn Pro Arg  
 115 120 125  
 Val Glu Arg Pro Cys Lys Ser Ser Lys Gly Asn Lys Arg Gly Arg Thr  
 130 135 140  
 Phe Arg Lys Thr Arg Asn Cys Asn Arg His Leu Arg Arg  
 145 150 155 157

<210> 1444  
 <211> 53  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1444  
 Cys Val Cys Gly Phe Phe Val Cys Phe Glu Thr Lys Ser Cys Phe Val  
 1 5 10 15  
 Ala Gln Ala Gly Val Gln Trp His Asn Leu Ser Ser Leu Gln Ala Leu  
 20 25 30  
 Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp  
 35 40 45  
 His Tyr Arg Arg Val  
 50 53

<210> 1445  
 <211> 106  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1445

```

Gly Thr Arg Leu Arg Arg Arg Arg Glu Ala Val Trp Phe Glu Val Val
 1           5           10           15
Asn Met Asp Phe Ser Arg Leu His Met Tyr Ser Pro Pro Gln Cys Val
           20           25           30
Pro Glu Asn Thr Gly Tyr Thr Tyr Ala Leu Ser Ser Ser Tyr Ser Ser
           35           40           45
Asp Ala Leu Asp Phe Glu Thr Glu His Lys Leu Asp Pro Val Phe Asp
           50           55           60
Ser Pro Arg Met Ser Arg Arg Ser Leu Arg Leu Ala Thr Thr Ala Cys
           65           70           75           80
Thr Leu Gly Asp Gly Glu Ala Val Gly Ala Asp Ser Gly Thr Ser Ser
           85           90           95
Ala Val Ser Leu Lys Asn Arg Ala Ala Arg
           100           105 106

```

<210> 1446  
 <211> 95  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1446
Asp Thr Met Gln Ala Val Val Pro Leu Asn Lys Met Thr Ala Ile Ser
 1           5           10           15
Pro Glu Pro Gln Thr Leu Ala Ser Thr Glu Gln Asn Glu Val Pro Arg
           20           25           30
Val Val Thr Ser Gly Glu Gln Glu Ala Ile Leu Arg Gly Asn Ala Ala
           35           40           45
Asp Ala Glu Ser Phe Arg Gln Arg Phe Arg Trp Phe Cys Tyr Ser Glu
           50           55           60
Val Ala Gly Pro Arg Lys Ala Leu Ser Gln Leu Trp Glu Leu Cys Asn
           65           70           75           80
Gln Trp Leu Arg Pro Asp Ile His Thr Lys Glu Gln Ile Leu Glu
           85           90           95

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<210> 1447  
 <211> 127  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1447
Pro Ile Cys Leu Phe Ser Arg Pro Thr Leu Arg Pro Ser Arg Ser Lys
 1           5           10           15
Val Ser Leu Ile Glu Gly Arg Gly Ala Asn Met Ala Ala Arg Trp Arg
           20           25           30
Phe Trp Cys Val Ser Val Thr Met Val Val Ala Leu Leu Ile Val Cys
           35           40           45
Asp Val Pro Ser Ala Ser Ala Gln Arg Lys Lys Glu Met Val Leu Ser
           50           55           60
Glu Lys Val Ser Gln Leu Met Glu Trp Thr Asn Lys Arg Pro Val Ile
           65           70           75           80
Arg Met Asn Gly Asp Lys Phe Arg Arg Leu Val Lys Ala Pro Pro Arg
           85           90           95
Asn Tyr Ser Val Ile Val Met Phe Thr Ala Leu Gln Leu His Arg Gln
           100           105           110

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Cys Val Val Cys Lys Tyr Glu Leu Gln Leu Arg Phe Lys Ile Lys  
 115 120 125 127

<210> 1448  
 <211> 143  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1448  
 Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys  
 1 5 10 15  
 Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp  
 20 25 30  
 Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val  
 35 40 45  
 Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser  
 50 55 60  
 Glu Cys Leu Lys Glu Arg Arg Phe Tyr Asp Gly Phe Gln Leu Val Leu Thr  
 65 70 75 80  
 Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys  
 85 90 95  
 Asn Ser Glu Ser Gln His Ser Leu Lys His Phe Lys Ser Ser Arg Thr  
 100 105 110  
 Glu Pro His Cys Ile Ile Ile Asn Leu Ser Thr Trp Ile Ile Trp Trp  
 115 120 125  
 Tyr Glu Trp Asp Glu Lys Ile Phe Thr Pro Leu Asn Lys Lys Gly  
 130 135 140 143

<210> 1449  
 <211> 121  
 <212> Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)... (121)  
 <223> X = any amino acid or stop code

<400> 1449  
 Ala Lys Glu Arg Gly Glu Glu Arg Gln Gly Glu Gly Gly Gly Trp Leu  
 1 5 10 15  
 Ser Gly Ser Arg Trp Pro Leu Val Arg Ser Ala Phe Val Pro Ala Pro  
 20 25 30  
 Ser Ser Leu Ile Leu Ser Met Cys Leu Ser Pro Gly Ile Pro Glu Ala  
 35 40 45  
 Ala Pro Asp Ser Pro Leu Thr Ala Ser Ala Pro Thr Pro Xaa Val Met  
 50 55 60  
 Leu Leu Gly Asp Thr Gly Val Gly Lys Thr Cys Phe Leu Ile Gln Phe  
 65 70 75 80  
 Lys Asp Gly Ala Phe Leu Ser Gly Thr Phe Ile Ala Thr Val Gly Ile  
 85 90 95  
 Asp Phe Arg Val Arg Trp Leu Gln Ala Leu Ala Ser Ser Arg Glu Pro  
 100 105 110  
 Gly Leu Trp Leu Arg His Gly Gly Val

115

120 121

<210> 1450  
 <211> 76  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1450  
 Phe Tyr Pro Arg Ser Ser Ala Asp Leu Pro Phe Gln Thr Thr Arg Cys  
 1 5 10 15  
 Glu Phe Gln Thr Ser Val Met Glu Leu Ala His Ser Leu Leu Leu Asn  
 20 25 30  
 Glu Glu Ala Leu Ala Gln Ile Thr Glu Ala Lys Arg Pro Val Phe Ile  
 35 40 45  
 Phe Glu Trp Leu Arg Phe Leu Asp Lys Val Leu Val Ala Ala Asn Lys  
 50 55 60  
 Val Trp Tyr Cys Ser Phe Phe Pro Val Ala Leu Thr  
 65 70 75 76

<210> 1451  
 <211> 95  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1451  
 Met Asn Met Lys Gln Lys Ser Val Tyr Gln Gln Thr Lys Ala Leu Leu  
 1 5 10 15  
 Cys Lys Asn Phe Leu Lys Lys Trp Arg Met Lys Arg Glu Ser Leu Leu  
 20 25 30  
 Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala Leu Phe Ser  
 35 40 45  
 Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala Pro Gln Asn Leu  
 50 55 60  
 Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu Met Val Val Tyr Thr  
 65 70 75 80  
 Pro Ile Ser Asn Leu Thr Gln Gln Ile Met Asn Lys Thr Ala Leu  
 85 90 95

<210> 1452  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1452  
 Ser Pro Gln Gly Asn Gly Cys Pro Asp Val Thr Gly Asp Ser Val Ile  
 1 5 10 15  
 Arg Val Pro Leu Thr Leu Leu Val His Asn Leu Ala Gly Leu Thr Gly  
 20 25 30  
 Leu Leu His His Cys Leu Ser Gly Pro Leu Pro Ala Pro Ser Pro Pro

35	40	45
Pro Ala Met Ser Ser Ser Arg Lys Asp His Leu Gly Ala Ser Ser Ser		
50	55	60
Glu Pro Leu Pro Val Ile Ile Val Gly Asn Gly Pro Ser Gly Ile Cys		
65	70	75
Leu Ser Tyr Leu Leu Ser Gly Tyr Thr Pro Tyr Thr Lys Pro Asp Ala		
85	90	95
Ile His Pro His Pro Leu Leu Gln Arg Lys Leu Thr Glu Ala Pro Gly		
100	105	110
Val Ser Ile Leu Asp Gln Asp Leu Asp Tyr Leu Ser Glu Gly Leu Glu		
115	120	125
Gly Arg Ser Gln Ser Pro Val Ala Leu Leu Phe Asp Ala Leu Leu Arg		
130	135	140
Pro Asp Thr Asp Phe Gly Gly Asn Met Lys Ser Val Leu Thr Trp Lys		
145	150	155
His Arg Lys Glu His Ala Ile Pro His Val Val Leu Gly Arg		
165	170	174

&lt;210&gt; 1453

&lt;211&gt; 518

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1453

Asn Arg Arg Thr Arg Ala Gln Arg Cys Gln Arg Gly Arg Ser Cys Gly	
1	5
Ala Arg Glu Glu Glu Val Glu Pro Gly Thr Ala Arg Pro Pro Pro Ala	
20	25
Ala Ser Ala Met Asp Ala Ser Leu Glu Lys Ile Ala Asp Pro Thr Leu	
35	40
Ala Glu Met Gly Lys Asn Leu Lys Glu Ala Val Lys Met Leu Glu Asp	
50	55
Ser Gln Arg Arg Thr Glu Glu Glu Asn Gly Lys Lys Leu Ile Ser Gly	
65	70
Asp Ile Pro Gly Pro Leu Gln Gly Ser Gly Gln Asp Met Val Ser Ile	
85	90
Leu Gln Leu Val Gln Asn Leu Met His Gly Asp Glu Asp Glu Glu Pro	
100	105
Gln Ser Pro Arg Ile Gln Asn Ile Gly Glu Gln Gly His Met Ala Leu	
115	120
Leu Gly His Ser Leu Gly Ala Tyr Ile Ser Thr Leu Asp Lys Glu Lys	
130	135
Leu Arg Lys Leu Thr Thr Arg Ile Leu Ser Asp Thr Thr Leu Trp Leu	
145	150
Cys Arg Ile Phe Arg Tyr Glu Asn Gly Cys Ala Tyr Phe His Glu Glu	
165	170
Glu Arg Glu Gly Leu Ala Lys Ile Cys Arg Leu Ala Ile His Ser Arg	
180	185
Tyr Glu Asp Phe Val Val Asp Gly Phe Asn Val Leu Tyr Asn Lys Lys	
195	200
Pro Val Ile Tyr Leu Ser Ala Ala Arg Pro Gly Leu Gly Gln Tyr	
210	215
Leu Cys Asn Gln Leu Gly Leu Pro Phe Pro Cys Leu Cys Arg Val Pro	
225	230
Cys Asn Thr Val Phe Gly Ser Gln His Gln Met Asp Val Ala Phe Leu	
245	250
Glu Lys Leu Ile Lys Asp Asp Ile Glu Arg Gly Arg Leu Pro Leu Leu	
260	265
Leu Val Ala Asn Ala Gly Thr Ala Ala Val Gly His Thr Asp Lys Ile	
270	

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      275              280              285
Gly Arg Leu Lys Glu Leu Cys Glu Gln Tyr Gly Ile Trp Leu His Val
290              295              300
Glu Gly Val Asn Leu Ala Thr Leu Ala Leu Gly Tyr Val Ser Ser Ser
305              310              315
Val Leu Ala Ala Ala Lys Cys Asp Ser Met Thr Met Thr Pro Gly Pro
      325              330              335
Trp Leu Gly Leu Pro Ala Val Pro Ala Val Thr Leu Tyr Lys His Asp
340              345              350
Asp Pro Ala Leu Thr Leu Val Ala Gly Leu Thr Ser Asn Lys Pro Thr
355              360              365
Asp Lys Leu Arg Ala Leu Pro Leu Trp Leu Ser Leu Gln Tyr Leu Gly
370              375              380
Leu Asp Gly Phe Val Glu Arg Ile Lys His Ala Cys Gln Leu Ser Gln
385              390              395
Arg Leu Gln Glu Ser Leu Lys Lys Val Asn Tyr Ile Lys Ile Leu Val
      405              410              415
Glu Asp Glu Leu Ser Ser Pro Val Val Phe Arg Phe Phe Gln Glu
420              425              430
Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro Asn Met
435              440              445
Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala Leu Asn
450              455              460
Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser Gly Leu
465              470              475
Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe Ser Pro
      485              490              495
Leu Met Thr Ala Ala Gly Lys Pro Gly Leu Val Asp Ile Pro Cys Phe
500              505              510
Cys Ser Gly Ala Ala Gly
515              518

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&lt;210&gt; 1454

&lt;211&gt; 185

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1454

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Leu Cys Ile Met Asp Thr Lys Glu Glu Lys Lys Glu Arg Lys Gln Ser
1              5              10              15
Tyr Phe Ala Arg Leu Lys Lys Lys Lys Gln Ala Lys Gln Asn Ala Glu
20              25              30
Thr Ala Ser Ala Val Ala Thr Arg Thr His Thr Gly Lys Glu Asp Asn
35              40              45
Asn Thr Val Val Leu Glu Pro Asp Lys Cys Asn Ile Ala Val Glu Glu
50              55              60
Glu Tyr Met Thr Asp Glu Lys Lys Lys Arg Lys Ser Asn Gln Leu Lys
65              70              75              80
Glu Ile Arg Arg Thr Glu Leu Lys Arg Tyr Tyr Ser Ile Asp Asp Asn
85              90              95
Gln Asn Lys Thr His Asp Lys Lys Glu Lys Lys Met Val Val Gln Lys
100              105              110
Pro His Gly Thr Met Glu Tyr Thr Ala Gly Asn Gln Asp Thr Leu Asn
115              120              125
Ser Ile Ala Leu Lys Phe Asn Ile Thr Pro Asn Lys Leu Val Glu Leu
130              135              140
Asn Lys Leu Phe Thr His Thr Ile Val Pro Gly Gln Val Leu Phe Val
145              150              155              160
Pro Asp Ala Asn Ser Pro Ser Ser Thr Leu Arg Leu Ser Ser Ser Ser

```



		165		170		175
Pro	Gly	Ala	Thr	Val	Ser	Pro
		180			Ser	Ser
				185		

<210> 1455  
 <211> 206  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1455

Ser	Ala	Gly	Gly	Asp	Ser	Cys	Arg	Ala	Val	Pro	Met	Leu	Arg	Phe	Pro
1				5					10					15	
Thr	Cys	Phe	Pro	Ser	Phe	Arg	Val	Val	Gly	Glu	Lys	Gln	Leu	Pro	Gln
			20					25					30		
Glu	Ile	Ile	Phe	Leu	Val	Trp	Ser	Pro	Lys	Arg	Asp	Leu	Ile	Ala	Leu
			35				40					45			
Ala	Asn	Thr	Ala	Gly	Glu	Val	Leu	Leu	His	Arg	Leu	Ala	Ser	Phe	His
		50				55					60				
Arg	Val	Trp	Ser	Phe	Pro	Pro	Asn	Glu	Asn	Thr	Gly	Lys	Glu	Val	Thr
		65			70					75				80	
Cys	Leu	Ala	Trp	Arg	Pro	Asp	Gly	Lys	Leu	Leu	Ala	Phe	Ala	Leu	Ala
			85					90					95		
Asp	Thr	Lys	Lys	Ile	Val	Leu	Cys	Asp	Val	Glu	Lys	Pro	Glu	Ser	Leu
			100					105					110		
His	Ser	Phe	Ser	Val	Glu	Ala	Pro	Val	Ser	Cys	Met	His	Trp	Met	Glu
			115				120				125				
Val	Thr	Val	Glu	Ser	Ser	Val	Leu	Thr	Ser	Phe	Tyr	Asn	Ala	Glu	Asp
			130			135				140					
Glu	Ser	Asn	Leu	Leu	Leu	Pro	Lys	Leu	Pro	Thr	Leu	Pro	Lys	Asn	Tyr
			145		150				155					160	
Ser	Asn	Thr	Ser	Lys	Ile	Phe	Ser	Glu	Glu	Asn	Ser	Asp	Glu	Ile	Ile
			165				170						175		
Lys	Leu	Leu	Gly	Asp	Val	Arg	Leu	Asn	Ile	Leu	Val	Leu	Gly	Gly	Ser
			180				185						190		
Ser	Gly	Phe	Ile	Glu	Leu	Tyr	Ala	Tyr	Gly	Met	Phe	Lys	Ile		
			195				200					205	206		

<210> 1456  
 <211> 100  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1456

Pro	Arg	Asp	Pro	Val	Thr	Asp	Arg	Ala	Arg	Ala	Met	Pro	Arg	Arg	Gly
1				5					10					15	
Leu	Val	Ala	Gly	Pro	Asp	Leu	Glu	Tyr	Phe	Gln	Arg	His	Tyr	Phe	Thr
			20					25					30		
Pro	Ala	Glu	Val	Ala	Gln	His	Asn	Arg	Pro	Glu	Asp	Leu	Trp	Val	Ser
			35				40					45			
Tyr	Leu	Gly	Arg	Val	Tyr	Asp	Leu	Thr	Ser	Leu	Ala	Gln	Glu	Tyr	Lys
			50			55					60				
Gly	Asn	Leu	Leu	Leu	Lys	Pro	Ile	Val	Glu	Val	Ala	Gly	Gln	Asp	Ile
			65		70				75					80	
Ser	His	Trp	Phe	Asp	Pro	Lys	Thr	Arg	Asp	Val	Ser	Tyr	Ala	Gly	Thr

85 90 95

Trp Asp Cys Gly  
100

<210> 1457  
<211> 159  
<212>Amino acid  
<213> Homo sapiens

<400> 1457

Arg	Ile	Pro	Gly	Arg	Arg	Phe	Arg	Ala	Ala	Phe	Val	Leu	Gly	Ser	Ala
1				5				10						15	
Asn	Val	Ala	Ser	Ser	Val	Arg	Leu	Arg	Cys	Ser	Phe	Pro	Leu	Ser	Leu
		20						25					30		
Gly	Gly	Pro	Ser	Gly	Pro	Ala	Ala	Ala	Ser	Val	Ala	Leu	Gly	Pro	Ala
		35				40						45			
Gly	Pro	Gly	Arg	Ser	Leu	Gly	Arg	Thr	Pro	Asp	Thr	Gly	Asp	Trp	Glu
	50				55						60				
Met	Asp	Ser	Val	Ser	Phe	Glu	Asp	Val	Ala	Val	Ala	Phe	Thr	Gln	Glu
65					70					75				80	
Glu	Trp	Ala	Leu	Leu	Asp	Pro	Ser	Gln	Lys	Asn	Leu	Tyr	Arg	Asp	Val
			85						90					95	
Met	Gln	Glu	Ile	Phe	Arg	Asn	Leu	Ala	Ser	Val	Gly	Asn	Lys	Ser	Glu
		100					105						110		
Asp	Gln	Asn	Ile	Gln	Asp	Asp	Phe	Lys	Asn	Pro	Gly	Arg	Asn	Leu	Ser
		115					120					125			
Ser	His	Val	Val	Glu	Arg	Leu	Phe	Glu	Ile	Lys	Glu	Gly	Ser	Gln	Tyr
	130					135					140				
Gly	Glu	Thr	Phe	Ser	Gln	Asp	Ser	Asn	Leu	Asn	Leu	Asn	Lys	Ile	
145					150					155				159	

<210> 1458  
<211> 154  
<212>Amino acid  
<213> Homo sapiens

<400> 1458

Ser	Leu	Ser	Leu	Ser	Val	Ser	Pro	Phe	Leu	Arg	Leu	Ser	Leu	Gly	Arg
1					5				10					15	
Val	Gly	Gly	Met	Ala	Glu	Glu	Met	Glu	Ser	Ser	Leu	Glu	Ala	Ser	Phe
			20						25				30		
Ser	Ser	Ser	Gly	Ala	Val	Ser	Gly	Ala	Ser	Gly	Phe	Leu	Pro	Pro	Ala
		35					40					45			
Arg	Ser	Arg	Ile	Phe	Lys	Ile	Ile	Val	Ile	Gly	Asp	Ser	Asn	Val	Gly
	50					55					60				
Lys	Thr	Cys	Leu	Thr	Tyr	Arg	Phe	Cys	Ala	Gly	Arg	Phe	Pro	Asp	Arg
65					70					75				80	
Thr	Glu	Ala	Thr	Ile	Gly	Val	Asp	Phe	Arg	Glu	Arg	Ala	Val	Glu	Ile
			85						90					95	
Asp	Gly	Glu	Arg	Ile	Lys	Ile	Gln	Leu	Trp	Asp	Thr	Ala	Gly	Gln	Glu
		100						105					110		
Arg	Phe	Arg	Lys	Ser	Met	Val	Gln	His	Tyr	Tyr	Arg	Asn	Val	His	Ala
		115					120					125			
Val	Val	Phe	Val	Tyr	Asp	Met	Thr	Asn	Met	Ala	Ser	Phe	His	Ser	Leu

130 135 140  
 Pro Ser Trp Ile Glu Glu Cys Lys Gln His  
 145 150 154

<210> 1459  
 <211> 136  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1459  
 Arg Arg Pro Ser Pro Gly Ser Ile Val Ile Met Ala Ala Glu Ser Asp  
 1 5 10 15  
 Val Leu His Phe Gln Phe Glu Gln Gln Gly Asp Val Val Leu Gln Lys  
 20 25 30  
 Met Asn Leu Leu Arg Gln Gln Asn Leu Phe Cys Asp Val Ser Ile Tyr  
 35 40 45  
 Ile Asn Asp Thr Glu Phe Gln Gly His Lys Val Ile Leu Ala Ala Cys  
 50 55 60  
 Ser Thr Phe Met Arg Asp Gln Phe Leu Leu Thr Gln Ser Lys His Val  
 65 70 75 80  
 Arg Ile Thr Ile Leu Gln Ser Ala Glu Val Gly Arg Lys Leu Leu Leu  
 85 90 95  
 Ser Cys Tyr Thr Gly Ala Leu Glu Val Lys Arg Lys Glu Leu Leu Lys  
 100 105 110  
 Tyr Leu Thr Ala Ala Ser Tyr Leu Gln Met Val His Ile Ala Glu Lys  
 115 120 125  
 Arg Thr Glu Ala Phe Val Lys Phe  
 130 135 136

<210> 1460  
 <211> 219  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1460  
 Ala Glu Gly Leu Gln Ser Ala Ala Gly Ile Arg Ile Asp Thr Lys Ala  
 1 5 10 15  
 Gly Pro Pro Glu Met Leu Lys Pro Leu Trp Lys Ala Ala Val Ala Pro  
 20 25 30  
 Thr Trp Pro Cys Ser Met Pro Pro Arg Arg Pro Trp Asp Arg Gln Ala  
 35 40 45  
 Gly Thr Leu Gln Val Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser  
 50 55 60  
 Val Ala Leu Ile Cys Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp  
 65 70 75 80  
 Gly Gln Val Gln Pro Lys Asp Val Pro Arg Ser Trp Glu His Gly Ser  
 85 90 95  
 Ser Pro Ala Trp Glu Pro Leu Glu Ala Glu Ala Arg Gln Gln Arg Asp  
 100 105 110  
 Ser Cys Gln Leu Val Leu Val Glu Ser Ile Pro Gln Asp Leu Pro Ser  
 115 120 125  
 Ala Ala Gly Ser Pro Ser Ala Gln Pro Leu Gly Gln Ala Trp Leu Gln  
 130 135 140  
 Leu Leu Asp Thr Ala Gln Glu Ser Val His Val Ala Ser Tyr Tyr Trp

```

145             150             155             160
Ser Leu Thr Gly Pro Asp Ile Gly Val Asn Asp Ser Ser Ser Gln Leu
                165             170             175
Gly Glu Ala Leu Leu Gln Lys Leu Gln Gln Leu Leu Gly Arg Asn Ile
                180             185             190
Ser Leu Ala Val Ala Thr Ser Ser Pro Thr Leu Ala Arg Thr Ser Thr
                195             200             205
Asp Leu Gln Val Leu Ala Ala Arg Gly Ala His
                210             215             219

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<210> 1461
<211> 80
<212>Amino acid
<213> Homo sapiens

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<400> 1461
Arg Lys Lys Lys Met Pro Leu Pro Phe Gly Leu Lys Leu Lys Arg Thr
 1             5             10             15
Arg Arg Tyr Thr Val Ser Ser Lys Ser Cys Leu Val Ala Arg Ile Gln
                20             25             30
Leu Leu Asn Asn Glu Phe Val Glu Phe Thr Leu Ser Val Glu Ser Thr
                35             40             45
Gly Gln Glu Ser Leu Glu Ala Val Ala Gln Arg Leu Glu Leu Arg Glu
 50             55             60
Val Thr Tyr Phe Ser Leu Trp Tyr Tyr Asn Lys Gln Asn Gln Arg Arg
 65             70             75             80

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<210> 1462
<211> 176
<212>Amino acid
<213> Homo sapiens

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<400> 1462
Leu Gln Pro Leu Ser Ser Trp Glu Ser Ala Ser Glu Val Thr Arg Ser
 1             5             10             15
Pro Val Ser Pro Glu Asp Val Lys Gln Ala Thr Ser Asn Phe Glu Asn
                20             25             30
Leu Gln Lys Gln Leu Ala Arg Lys Met Lys Leu Pro Ile Phe Ile Ala
                35             40             45
Asp Ala Phe Thr Ala Arg Ala Phe Arg Gly Asn Pro Ala Ala Val Cys
 50             55             60
Leu Leu Glu Asn Glu Leu Asp Glu Asp Met His Gln Lys Ile Ala Arg
 65             70             75             80
Glu Met Asn Leu Ser Glu Thr Ala Phe Ile Arg Lys Leu His Pro Thr
                85             90             95
Asp Asn Phe Ala Gln Ser Ser Cys Phe Gly Leu Arg Trp Phe Thr Pro
                100             105             110
Ala Ser Glu Val Pro Leu Cys Gly His Ala Thr Leu Ala Ser Ala Ala
                115             120             125
Val Leu Phe His Lys Ile Lys Asn Met Asn Ser Thr Leu Thr Phe Val
 130             135             140
Thr Leu Ser Gly Glu Leu Arg Ala Arg Arg Ala Glu Asp Gly Ile Val

```

145				150					155			160
Leu	Asp	Leu	Pro	Leu	Tyr	Pro	Ala	His	Pro	Gln	Asp	Phe
				165					170			His
												Glu
												*
												175

<210> 1463  
 <211> 150  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1463

Ala	Ala	Asp	Thr	Met	Gln	Ser	Asp	Asp	Val	Ile	Trp	Asp	Thr	Leu	Gly
1				5					10					15	
Asn	Lys	Gln	Phe	Cys	Ser	Phe	Lys	Ile	Arg	Thr	Lys	Thr	Gln	Ser	Phe
		20						25					30		
Cys	Arg	Asn	Glu	Tyr	Ser	Leu	Thr	Gly	Leu	Cys	Asn	Arg	Ser	Ser	Cys
		35					40					45			
Pro	Leu	Ala	Asn	Ser	Gln	Tyr	Ala	Thr	Ile	Lys	Glu	Glu	Lys	Gly	Gln
	50				55						60				
Cys	Tyr	Leu	Tyr	Met	Lys	Val	Ile	Glu	Arg	Ala	Ala	Phe	Pro	Arg	Arg
65				70						75				80	
Leu	Trp	Glu	Arg	Val	Arg	Leu	Ser	Lys	Asn	Tyr	Glu	Lys	Ala	Leu	Glu
			85					90						95	
Gln	Ile	Asp	Glu	Asn	Leu	Ile	Tyr	Trp	Pro	Arg	Phe	Ile	Arg	His	Lys
		100						105					110		
Cys	Lys	Gln	Arg	Phe	Thr	Lys	Ile	Thr	Gln	Tyr	Leu	Ile	Arg	Ile	Arg
		115					120					125			
Lys	Leu	Thr	Leu	Lys	Arg	Gln	Arg	Lys	Leu	Val	Pro	Leu	Ser	Lys	Lys
	130					135						140			
Val	Glu	Arg	Arg	Glu	Lys										
145					150										

<210> 1464  
 <211> 86  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1464

Phe	Val	Glu	Arg	Gly	Leu	Gly	Asp	Pro	Ala	Leu	Pro	Thr	Leu	Met	Phe
1				5					10					15	
Glu	Glu	Pro	Glu	Trp	Ala	Glu	Ala	Ala	Pro	Val	Ala	Ala	Gly	Leu	Gly
		20						25					30		
Pro	Val	Ile	Ser	Arg	Pro	Pro	Pro	Ala	Ala	Ser	Ser	Gln	Asn	Lys	Val
		35					40					45			
Ser	Asp	Ser	Arg	Glu	Gln	Trp	Glu	Leu	Phe	Gln	Ala	Ala	Lys	Arg	Thr
	50				55					60					
Leu	Val	Asp	Pro	Ser	Ala	Val	Cys	Ile	Ala	Gly	Arg	Asp	Thr	Cys	Gly
65				70						75				80	
Thr	Val	Lys	Gly	Glu	Ser										
				85	86										

<210> 1465  
 <211> 286  
 <212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1465  
 Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro  
 1 5 10 15  
 Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala  
 20 25 30  
 Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser  
 35 40 45  
 Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln  
 50 55 60  
 Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val  
 65 70 75 80  
 Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu  
 85 90 95  
 Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val  
 100 105 110  
 Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp  
 115 120 125  
 Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val  
 130 135 140  
 Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala  
 145 150 155 160  
 Leu Met Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly  
 165 170 175  
 Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp  
 180 185 190  
 Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln  
 195 200 205  
 Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp  
 210 215 220  
 Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val  
 225 230 235 240  
 Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys  
 245 250 255  
 Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln  
 260 265 270  
 Glu Glu Gln Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg  
 275 280 285 286

&lt;210&gt; 1466

&lt;211&gt; 127

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1466  
 Gly Cys Tyr Ala Pro Ser Pro His Leu Gly Gly Ser Leu Thr Pro Arg  
 1 5 10 15  
 Phe Phe Pro Asn Gly Val Phe His Arg Arg Leu Pro Arg Pro Arg Pro  
 20 25 30  
 Pro Gln Pro Pro Ser Val Ser Ser Ala Pro Thr Leu Arg Pro Leu Cys  
 35 40 45  
 Ala His Phe Ser Leu Gly Lys Leu Arg Leu Arg Val Arg Lys Ser Ala  
 50 55 60  
 Glu Val Ala Pro Pro Arg Thr Glu Lys Gly Trp Gly Ser Ala Glu Pro

65	70	75	80
Arg His Ser Arg Ala Pro Leu Gly Leu Gln Gly Leu Arg Met Ala Ala			
	85	90	95
Ser Ala Gln Val Ser Val Thr Phe Glu Asp Val Ala Val Thr Phe Thr			
	100	105	110
Gln Glu Glu Trp Gly Gln Leu Asp Ala Ala Gln Arg Thr Leu Tyr			
	115	120	125 127

<210> 1467  
 <211> 146  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1467

Phe Arg Gly Ser Leu Ser Ser Pro Ser Ser Leu Arg Gly Arg Arg Leu			
1	5	10	15
Val Thr Gly Gln Thr Ser Pro Arg Gly Thr Trp Cys Leu Tyr Pro Gly			
	20	25	30
Phe Cys Arg Ser Val Ala Cys Ala Met Pro Cys Cys Ser His Arg Ser			
	35	40	45
Cys Arg Glu Asp Pro Gly Thr Ser Glu Ser Arg Glu Met Asp Pro Val			
	50	55	60
Val Phe Glu Asp Val Ala Val Asn Phe Thr Gln Glu Glu Trp Thr Leu			
65	70	75	80
Leu Asp Ile Ser Gln Lys Asn Leu Phe Arg Glu Val Met Leu Glu Thr			
	85	90	95
Phe Arg Asn Leu Thr Ser Ile Gly Lys Lys Trp Ser Asp Gln Asn Ile			
	100	105	110
Glu Tyr Glu Tyr Gln Asn Pro Arg Arg Ser Phe Arg Ser Leu Ile Glu			
	115	120	125
Glu Lys Val Asn Glu Ile Lys Glu Asp Ser His Cys Gly Glu Thr Phe			
	130	135	140
Thr Gln			
145 146			

<210> 1468  
 <211> 44  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1468

Leu Asn Phe Ala Asn Ser Ala Ala Phe Ala Val Thr Met Pro Gln Asn			
1	5	10	15
Glu Tyr Ile Glu Leu His Arg Lys Arg Tyr Gly Phe Arg Leu Asp Tyr			
	20	25	30
His Glu Lys Lys Arg Lys Lys Gln Ser Arg Glu Ala			
	35	40	44

<210> 1469  
 <211> 198  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1469  
 Ser Gly Asp Leu Ser Pro Ala Glu Leu Met Met Leu Thr Ile Gly Asp  
 1 5 10 15  
 Val Ile Lys Gln Leu Ile Glu Ala His Glu Gln Gly Lys Asp Ile Asp  
 20 25 30  
 Leu Asn Lys Val Lys Thr Lys Thr Ala Ala Lys Tyr Gly Leu Ser Ala  
 35 40 45  
 Gln Pro Arg Leu Val Asp Ile Ile Ala Ala Val Pro Pro Gln Tyr Arg  
 50 55 60  
 Lys Val Leu Met Pro Lys Leu Lys Ala Lys Pro Ile Arg Thr Ala Ser  
 65 70 75 80  
 Gly Ile Ala Val Val Ala Val Met Cys Lys Pro His Arg Cys Pro His  
 85 90 95  
 Ile Ser Phe Thr Gly Asn Ile Cys Val Tyr Cys Pro Gly Gly Pro Asp  
 100 105 110  
 Ser Asp Phe Glu Tyr Ser Thr Gln Ser Tyr Thr Gly Tyr Glu Pro Thr  
 115 120 125  
 Ser Met Arg Ala Ile Arg Ala Arg Tyr Asp Pro Phe Leu Gln Thr Arg  
 130 135 140  
 His Arg Ile Glu Gln Leu Lys Gln Leu Gly His Ser Val Asp Lys Val  
 145 150 155 160  
 Glu Phe Ile Glu Met Gly Gly Thr Phe Met Ala Leu Pro Glu Glu Tyr  
 165 170 175  
 Arg Asp Tyr Phe Ile Arg Asn Leu His Asp Ala Leu Ser Gly His Thr  
 180 185 190  
 Ser Asn Asn Ile Tyr Glu  
 195 198

<210> 1470  
 <211> 178  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1470  
 Trp Glu Ser Asp Val Gly Glu Gly Leu Arg Pro Pro Pro Pro Pro Pro  
 1 5 10 15  
 Pro Pro Gly Arg Arg Arg Thr Gln Glu Pro Arg Ala Arg Asp Ala Ala  
 20 25 30  
 Thr Val Ile Phe Ala Cys Pro Ala Ala Leu Leu Glu Thr Leu Ile Ala  
 35 40 45  
 Tyr Gly Ser Ser Ser Pro Ser Phe Cys Lys His Arg Ala Ala Arg Pro  
 50 55 60  
 Leu Ile Phe Leu Leu His Arg Leu Thr Ala Glu Ala Thr Ala Arg Cys  
 65 70 75 80  
 Pro Ile Cys Ala Leu Glu Ala Arg Asn Pro Gly Arg Trp Gly Ile Cys  
 85 90 95  
 Ala Ser Trp Pro Gly Met Lys Thr Pro Phe Gly Lys Ala Ala Ala Gly  
 100 105 110  
 Gln Arg Ser Arg Thr Gly Ala Gly His Gly Ser Val Ser Val Thr Met  
 115 120 125  
 Ile Lys Arg Lys Ala Ala His Lys Lys His Arg Ser Arg Pro Thr Ser  
 130 135 140  
 Gln Pro Arg Gly Asn Ile Val Gly Cys Ile Ile Gln His Gly Trp Lys  
 145 150 155 160  
 Asp Gly Asp Glu Pro Leu Thr Gln Trp Lys Gly Thr Val Leu Asp Gln



Leu Leu 165 170 175  
 178  
  
 <210> 1471  
 <211> 253  
 <212>Amino acid  
 <213> Homo sapiens  
  
  
  
 <400> 1471  
 Arg Asp Leu Gly Val Ala Leu Glu Ala Phe Gln Trp Ala Arg Ala Gly  
 1 5 10 15  
 Asp Cys Gly Ser Gly Ala Gly Arg Ala Gly Gly Glu Gly Val Asp Ala  
 20 25 30  
 Gly Arg Arg Val Pro Glu Arg Gln His Arg Gly Arg Gly Gly Gly  
 35 40 45  
 Glu Pro Gly Arg Arg Gln Arg Gly Gly Arg Arg Gln Arg Ser Ser Ser  
 50 55 60  
 Arg Arg Ser Gly Gly Asp Gly Gly Asp Glu Val Glu Gly Ser Gly Val  
 65 70 75 80  
 Gly Ala Gly Glu Gly Glu Thr Val Gln His Phe Pro Leu Ala Arg Pro  
 85 90 95  
 Lys Ser Leu Met Gln Lys Leu Gln Cys Ser Phe Gln Thr Ser Trp Leu  
 100 105 110  
 Lys Asp Phe Pro Trp Leu Arg Tyr Ser Lys Asp Thr Gly Leu Met Ser  
 115 120 125  
 Cys Gly Trp Cys Gln Lys Thr Pro Ala Asp Gly Gly Ser Val Asp Leu  
 130 135 140  
 Pro Pro Val Gly His Asp Glu Leu Ser Arg Gly Thr Arg Asn Tyr Lys  
 145 150 155 160  
 Lys Thr Leu Leu Leu Arg His His Val Ser Thr Glu His Lys Leu His  
 165 170 175  
 Glu Ala Asn Ala Gln Glu Ser Glu Ile Pro Ser Glu Glu Gly Tyr Cys  
 180 185 190  
 Asp Phe Asn Ser Arg Pro Asn Glu Asn Ser Tyr Cys Tyr Gln Leu Leu  
 195 200 205  
 Arg Gln Leu Asn Glu Gln Arg Lys Lys Gly Ile Leu Cys Asp Val Ser  
 210 215 220  
 Ile Val Val Ser Gly Lys Ile Phe Lys Ala His Lys Asn Ile Leu Val  
 225 230 235 240  
 Ala Gly Ser Arg Phe Phe Lys Thr Leu Tyr Cys Phe Ser  
 245 250 253

<210> 1472  
 <211> 147  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1472  
 Ser Leu Arg Ala Ala Ala Met Ala Asp Val Thr Ala Arg Ser Leu  
 1 5 10 15  
 Gln Tyr Glu Tyr Lys Ala Asn Ser Asn Leu Val Leu Gln Ala Asp Arg  
 20 25 30  
 Ser Leu Ile Asp Arg Thr Arg Arg Asp Glu Pro Thr Gly Glu Val Leu

```

          35          40          45
Ser Leu Val Gly Lys Leu Glu Gly Thr Arg Met Gly Asp Lys Ala Gln
  50          55          60
Arg Thr Lys Pro Gln Met Gln Glu Glu Arg Arg Ala Lys Arg Arg Lys
  65          70          75          80
Arg Asp Glu Asp Arg His Asp Ile Asn Lys Met Lys Gly Tyr Thr Leu
          85          90          95
Leu Ser Glu Gly Ile Asp Glu Met Val Gly Ile Ile Tyr Lys Pro Lys
  100          105          110
Thr Lys Glu Thr Arg Glu Thr Tyr Glu Val Leu Leu Ser Phe Ile Gln
  115          120          125
Ala Ala Leu Gly Asp Gln Pro Arg Asp Ile Leu Cys Gly Ala Ala Asp
  130          135          140
Glu Val Leu
  145          147

```

&lt;210&gt; 1473

&lt;211&gt; 139

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

```

          <400> 1473
Cys Asn Ser Ala Glu Ser Arg Met Asp Val Leu Phe Val Ala Ile Phe
  1          5          10          15
Ala Val Pro Leu Ile Leu Gly Gln Glu Tyr Glu Asp Glu Glu Arg Leu
          20          25          30
Gly Glu Asp Glu Tyr Tyr Gln Val Val Tyr Tyr Tyr Thr Val Thr Pro
  35          40          45
Ser Tyr Asp Asp Phe Ser Ala Asp Phe Thr Ile Asp Tyr Ser Ile Phe
  50          55          60
Glu Ser Glu Asp Arg Leu Asn Arg Leu Asp Lys Asp Ile Thr Glu Ala
  65          70          75          80
Ile Glu Thr Thr Ile Ser Leu Glu Thr Ala Arg Ala Asp His Pro Lys
          85          90          95
Pro Val Thr Val Lys Pro Val Thr Thr Glu Pro Gln Ser Pro Asp Leu
  100          105          110
Asn Asp Ala Val Ser Ser Leu Arg Ser Pro Ile Pro Leu Leu Leu Ser
  115          120          125
Cys Ala Phe Val Gln Val Gly Met Tyr Phe Met
  130          135          139

```

&lt;210&gt; 1474

&lt;211&gt; 185

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(185)

&lt;223&gt; X = any amino acid or stop code

```

          <400> 1474
Phe Val Arg Gly Pro Gly Glu Glu Gln Ala Pro Ala Phe Arg Lys Pro
  1          5          10          15

```

```

Ala Pro Gly Ala Met Gly Ala Gln Val Arg Leu Pro Pro Gly Glu Pro
      20      25      30
Cys Arg Glu Gly Tyr Val Leu Ser Leu Val Cys Pro Asn Ser Ser Gln
      35      40      45
Ala Trp Cys Glu Ile Thr Asn Val Ser Gln Leu Leu Ala Ser Pro Val
      50      55      60
Leu Tyr Thr Asp Leu Asn Tyr Ser Ile Asn Asn Leu Ser Ile Ser Ala
      65      70      75      80
Asn Val Glu Asn Lys Tyr Ser Leu Tyr Val Gly Leu Val Leu Ala Val
      85      90      95
Ser Ser Ser Ile Phe Ile Gly Ser Ser Phe Ile Leu Lys Lys Lys Gly
      100      105      110
Leu Leu Gln Leu Ala Ser Lys Gly Phe Thr Arg Ala Gly Gln Gly Gly
      115      120      125
His Ser Tyr Leu Lys Glu Trp Leu Trp Trp Val Gly Leu Leu Ser Ile
      130      135      140
Leu Ser Trp Asn Ala Arg Glu Lys Val Asp Leu Xaa Asn Ile Thr Phe
      145      150      155      160
Xaa Pro Gln Thr Ser Cys Ile Phe Phe Thr Ile Thr Ile Glu Lys Ser
      165      170      175
Thr Phe Leu Ser Tyr Phe Pro Thr Ser
      180      185

```

<210> 1475  
 <211> 91  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1475
Ala Arg Gly Ser Cys Pro Thr Arg Pro Arg Pro Ala Asn Gly Arg Met
  1      5      10      15
Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp Val
      20      25      30
Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala Gln
      35      40      45
Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu Val
      50      55      60
Ser Leu Gly His Arg Val Pro Lys Pro Glu Leu Val His Leu Leu Lys
      65      70      75      80
His Gly Gln Glu Leu Trp Ile Val Lys Arg Gly
      85      90      91

```

<210> 1476  
 <211> 159  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1476
Tyr Thr Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro
  1      5      10      15
Glu Val Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala
      20      25      30
Asp Leu Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val
      35      40      45

```

```

Gln Lys Pro Gly Gly Thr Val Ile Leu Gly Cys Val Val Glu Pro Pro
  50          55          60
Arg Met Asn Val Thr Trp Arg Leu Asn Gly Lys Glu Leu Asn Gly Ser
  65          70          75          80
Asp Asp Ala Leu Gly Val Leu Ile Thr His Gly Thr Leu Val Ile Thr
      85          90          95
Ala Leu Asn Asn His Thr Val Gly Arg Tyr Gln Cys Val Ala Arg Met
      100          105          110
Pro Ala Gly Ala Val Ala Ser Val Pro Ala Thr Val Thr Leu Ala Ser
      115          120          125
Glu Ser Ala Pro Leu Pro Pro Cys His Gly Ala Val Pro Pro His Leu
      130          135          140
Ser His Pro Glu Ala Pro Thr Ile His Ala Ala Ser Cys Tyr Ser
      145          150          155          159

```

```

<210> 1477
<211> 139
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1477
Trp Gly Arg Arg Arg Gln Leu Val Ser Glu Ala Ala Arg Ala Gln Gly
  1          5          10          15
Asp Pro Val Cys Ser Thr Met Ser Glu Glu Glu Ala Ala Gln Ile Pro
      20          25          30
Arg Ser Ser Val Trp Glu Gln Asp Gln Gln Asn Val Val Gln Arg Val
      35          40          45
Val Ala Leu Pro Leu Val Arg Ala Thr Cys Thr Ala Val Cys Asp Val
      50          55          60
Tyr Ser Ala Ala Lys Asp Arg His Pro Leu Leu Gly Ser Ala Cys Arg
      65          70          75          80
Leu Ala Glu Asn Cys Val Cys Gly Leu Thr Thr Arg Ala Leu Asp His
      85          90          95
Ala Gln Pro Leu Leu Glu His Leu Gln Pro Gln Leu Ala Thr Met Asn
      100          105          110
Ser Leu Ala Cys Arg Gly Leu Asp Lys Leu Glu Glu Lys Leu Pro Phe
      115          120          125
Leu Gln Gln Pro Ser Glu Thr Val Val Thr Ser
      130          135          139

```

```

<210> 1478
<211> 331
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(331)
<223> X = any amino acid or stop code

```

```

<400> 1478
Ala Lys Ala Phe Thr Met Ala Glu Ser Pro Gly Cys Cys Ser Val Trp
  1          5          10          15
Ala Arg Cys Leu His Cys Leu Tyr Ser Cys His Trp Arg Lys Cys Pro

```

